



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON D C 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Dr Robert Hamilton Registration & Regulatory Affairs Valent U S A Corporation 1600 Riviera Avenue Suite 200 Walnut Creek CA 94596 8025

DEC 13 2012

Dear Dr Hamilton

Subject New Uses – (R200) add additional food uses bundled six or more

Knack Insect Growth Regulator

EPA Reg No 59639 95

Distance Insect Growth Regulator

EPA Reg No 59639 96

Esteem Ant Bait

EPA Reg No 59639 114

Esteem 35WP

EPA Reg No 59639 115

Pyriproxyfen 0 86 EC Ag

EPA Reg No 59639 160

Pyriproxyfen 0 86 EC VPP

EPA Reg No 59639 163

Submissions dated November 28 2011

Following review of the residue data submitted in support of the IR 4 petition [(PP# 1E7950) (77 FR 73951 73956) (FRL 9365 6)] EPA established pyriproxyfen tolerances for Bulb Vegetable Group 3-07 Fruiting Vegetable Group 8 10 Citrus Fruit Group 10 10 Pome Fruit Group 11 10 Caneberry Subgroup 13 07A Bushberry Subgroup 13-07B Low Growing Berry except Strawberry Subgroup 13 07H and Herb Subgroup 19A Therefore the labeling referred to above submitted in connection with registration under the Federal Insecticide Fungicide and Rodenticide Act, is acceptable

Submit two (2) copies of your final printed labeling for each product before releasing the product for shipment. If these conditions are not complied with the registration(s) will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing amended labeling constitutes acceptance of these conditions

A stamped copy of each label is enclosed for your records. If you any questions or require more information please contact Kevin Sweeney at (703) 305, 5063. Thank you for your cooperation in this matter.

Product Manager 10

Insecticide Branch

Registration Division (7505P)

Enclosure



GROUP 70 INSECTICIDE

[Bracketed information is optional text]



INSECT GROWTH REGULATOR

Active Ingredient
*Pyriproxyfen
Other Ingredients
Total

By Wt 11 23% 88 77% 100 00%

*(2-[1-methyl-2-(4-phenoxyphenoxy)ethoxy]pyridine)

Contains 0 86 pound ai per gallon

Contains aromatic petroleum distillates

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NET CONTENTS 1 GALLON

ACCEPTED
DEC 13 2012

Under the Federal Insecticide, Fungicide and Rodenticide Act, as amended for the pesticide Registered under EPA Reg No 59/39-95

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Causes skin and eye irritation Do not get on skin, in eyes or on clothing Harmful if inhaled swallowed or absorbed through skin Avoid contact with skin eyes or clothing Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

	FIRST AID
If on skin or clothing	 Take off contaminated clothing Rinse skin immediately with plenty of water for 15-20 minutes Call a poison control center or doctor for further treatment advice
If in eyes	 Hold eye open and rinse slowly and gently with water for 15-20 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 swallowed	 Immediately call a poison control center or doctor Do not induce vomiting unless told to do so by a poison control center or doctor Do not give any liquid to the person Do not give anything by mouth to an unconscious person
If inhaled	 Move person to fresh air If person is not breathing call 911 or an ambulance then give artificial respiration preferably by mouth-to-mouth if possible Call a poison control center or doctor for further treatment advice

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact **800-892-0099** for emergency medical treatment information.

NOTE TO PHYSICIANS

If ingested probable mucosal damage may contraindicate the use of gastric lavage. This product contains a light hydrocarbon liquid, ingestion or subsequent vomiting can result in aspiration of this product, which can cause pneumonitis.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

Applicators and other handlers must wear coveralls over short-sleeved shirt and short pants or long-sleeved shirt and long pants, chemical-resistant gloves such as Barrier Laminate or Viton ≥ 14 mils chemical-resistant footwear plus socks, chemical-resistant headgear for overhead exposure, chemical-resistant apron when cleaning equipment, mixing or loading

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

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 pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by disposing of equipment washwaters or rinsate. Avoid direct application and/or spray drift to bee hives.

Note to EPA reviewer if this product is shipped in containers greater than 50 lbs, the following environmental hazard statement will be added to the label

[Do not discharge effluent containing this product into lakes streams ponds estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority For guidance contact your State Water Board or Regional Office of the EPA]

DIRECTIONS FOR USE

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

READ ENTIRE LABEL USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS

Do not apply this product in a way that will contact workers or other persons either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR part 170 This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE) and Restricted-Entry Interval (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

Do not enter or allow worker entry into treated areas during the REI of 12 hours

PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated such as plants, soil or water, is coveralls over short-sleeved shirt and short pants chemical-resistant gloves such as Barrier Laminate or Viton ≥ 14 mils, chemical-resistant footwear plus socks chemical-resistant headgear for overhead exposure

DISCLAIMER RISKS OF USING THIS PRODUCT LIMITED WARRANTY AND LIMITATION OF LIABILITY

IMPORTANT Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT rather return the unopened product within 15 days of purchase for a refund of the purchase price.

RISKS OF USING THIS PRODUCT

The Buyer and User (referred to collectively herein as Buyer) of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. These risks include but are not limited to injury to plants and crops to which this product is applied. Tack of control of the target pests or weeds resistance of the target pest or weeds to this product. Injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions disease moisture conditions. Irrigation practices condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application. (or a combination of such factors) all of which are factors beyond the control of Valent. The Buyer should be aware that these inherent unintended risks may reduce the harvested yield of the crop in all or a portion of the treated acreage or otherwise affect the crop such that additional care treatment and expense are required to take the crop to harvest. If the Buyer chooses not to accept these risks. THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND TO THE FULLEST EXTENT ALLOWED BY LAW AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

Valent shall not be responsible for losses or damages (including but not limited to loss of yield increased expenses of farming the crop or such incidental consequential or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

LIMITED WARRANTY

Valent warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label under average use conditions when used strictly in accordance with the label and subject to the Risks of Using This Product as described above. To the extent consistent with applicable law AND AS SET FORTH ABOVE VALENT MAKES NO OTHER WARRANTIES EITHER EXPRESSED OR IMPLIED. No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

LIMITATION OF LIABILITY

To the fullest extent allowed by law Valent or Seller is not liable for any incidental consequential indirect or special damages resulting from the use or handling of this product. The limitation includes but is not limited to loss of yield on all or any portion of the treated acreage increased care, treatment or other expenses required to take the crop to harvest increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. TO THE FULLEST EXTENT ALLOWED BY LAW. THE EXCLUSIVE REMEDY OF THE BUYER AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY CONTRACT NEGLIGENCE TORT. STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR AT THE ELECTION OF VALENT OR SELLER. THE REPLACEMENT OF THE PRODUCT

PROMPT NOTICE OF CLAIM

To the extent consistent with applicable law allowing such requirements. Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty one days from date of planting, or twenty one days from the date of application, whichever is latter, so that an immediate inspection of the affected property and growing crops can be made.

To the extent consistent with applicable law if Buyer does not notify Valent of any claims in such period it shall be barred from obtaining any remedy

NO AMENDMENTS

Valent and Seller offer this product and Buyer accepts it subject to the foregoing **Disclaimer Risks of Using This Product, Limited Warranty** and **Limitation of Liability** which may not be modified by any oral or written agreement

TANK MIXES

NOTICE Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user applicator and/or application advisor to the extent allowed by applicable law

Read and follow the entire label of each product to be used in the tank mix with this product

[Optional Warranty/Disclaimer statement to be used when the product is sub-registered by Makhteshim Agan of North America Inc.]

LIMITATION OF WARRANTY AND LIABILITY

Read the entire directions for use conditions of warranties and limitations of liability before using this product. If terms are not acceptable return the unopened product container at once By using this product user or buyer accepts the following CONDITIONS DISCLAIMER OF WARRANTIES and LIMITATIONS OF LIABILITY

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

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

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

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management purposes *Knack* Insect Growth Regulator is a Group 7C insecticide. Any insect population may contain individuals naturally resistant to *Knack* Insect Growth Regulator and other Group 7C insecticides. The resistant individuals dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by *Knack* Insect Growth Regulator or other Group 7C insecticides, although local experts should be consulted for local resistance recommendations. The classification scheme is based on mode of action. It is recognized that resistance of insects and mites to insecticides and acaricides can also result from enhanced metabolism, reduced penetration or behavioral changes that are not linked to any site of action classification but are specific for individual chemicals or chemical groupings. Despite this, alternation of compounds from different chemical classes remains a viable management technique.

To delay insecticide resistance

- Avoid exclusive repeated use of insecticides from the same chemical subgroup
- Integrate other control methods (chemical, cultural biological) into insect control programs

For further information contact your local distributor

PRODUCT INFORMATION

Do not apply this product through any type of irrigation system

Knack Insect Growth Regulator is intended for use in Integrated Pest Management (IPM) or Insect Resistance Management (IRM) programs Knack Insect Growth Regulator will not control insect adults, and it is recommended to be used in combination and/or rotation with other IPM or IRM materials. Contact your local state extension service for details

Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Knack Insect Growth Regulator 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.

ARTICHOKE (GLOBE) [Not For Use In] [California] [New York]

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects Knack Insect Growth Regulator 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 Insect Growth Regulator does exhibit translaminar movement which means that Knack Insect Growth Regulator 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
Artichoke Plum Moth Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 to 10 fl oz	Apply with ground equipment in adequate water for uniform coverage (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)
		Under severe pressure use the higher recommended rates
		Only whole fields should be treated

Knack Insect Growth Regulator 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 7 days of harvest
- Do not make more than 2 Knack Insect Growth Regulator applications per growing season
- Do not exceed 20 fl oz of Knack Insect Growth Regulator per acre per season
- Do not apply earlier than 14 days after last Knack Insect Growth Regulator treatment
- Regardless of formulation do not apply more than 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

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 no more than two applications per growing season. *Knack* Insect Growth Regulator 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 IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

ASPARAGUS [Not For Use in] [California] [New York]

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Knack Insect Growth Regulator 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 Insect Growth Regulator does exhibit translaminar movement which means that Knack Insect Growth Regulator 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
Whitefly	8 to 10 fl oz	Apply with ground equipment in adequate water for uniform coverage (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)
		Under severe pressure use the higher recommended rates
		Only whole fields should be treated

- Do not apply within 7 days of harvest
- Do not make more than 2 Knack Insect Growth Regulator applications per growing season
- Do not exceed 20 fl oz of Knack Insect Growth Regulator per acre per season
- Do not apply earlier than 14 days after last Knack Insect Growth Regulator treatment
- Regardless of formulation do not apply more than 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

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 no more than two applications per growing season. *Knack* Insect Growth Regulator 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.

BANANA AND PLANTAIN [Not For Use in] [California] [New York]

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Knack Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed. Since Knack Insect Growth Regulator 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 Insect Growth Regulator does exhibit translaminar movement which means that Knack Insect Growth Regulator 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

- · Do not apply within 14 days of harvest
- Do not make more than 3 Knack Insect Growth Regulator applications per growing season
- Do not exceed 48 fl oz of Knack Insect Growth Regulator per acre per season
- Regardless of formulation do not apply more than 0 327 lb pyriproxyfen per acre per season
- Do not apply earlier than 14 days after last Knack Insect Growth Regulator 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 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 no more than three applications per growing season. *Knack* Insect Growth Regulator 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 Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

BERRY

Low Growing, Except Strawberry (Subgroup 13-07H) [Not For Use in] [California] [New York]

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Knack Insect Growth Regulator 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 PER ACRE	SPECIAL INSTRUCTIONS
Bearberry Bilberry Blueberry Lowbush Cloudberry Cranberry Lingonberry Muntries Partridgeberry Cultivars varieties and/or hybrids of these	Cherry Fruitworm Cranberry Fruitworm Lecanium Scale	16 fl oz	Apply with ground or air equipment as a full coverage spray (minimum of 5 gals/A by air or 50 gals/A by ground) Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage Fruitworms: Apply when egg laying begins and again at petal fall. Additional applications of another insecticide at 10 to 14 day intervals may be needed under high population pressure or sustained moth flight Lecanium 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 is recommended oil rate. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in season use and rates of oil in your.
	Insecticides to comply Resistance Manageme Do not apply within Do not make more growing season Do not exceed 32	with local Integrated ent (IRM) programs on 7 days of harvest e than 2 <i>Knack</i> Insect	area xed and/or alternated with commonly used Pest Management (IPM) and Insect to Growth Regulator applications per to Growth Regulator per acre per season To last Knack Insect Growth Regulator
	treatment	•	more than 0 218 lb pyriproxyfen per acre

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 no more than two applications per growing season. *Knack* Insect Growth Regulator 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.

BRASSICA LEAFY VEGETABLES (Crop Group 5)

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects Knack Insect Growth Regulator 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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getting the product to the underside of the leaves where whitefly are present

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Broccoli Broccoli Raab (rapini) Brussels Sprouts Cabbage Cauliflower Cavalo Broccolo Chinese Broccoli (gai lon) Chinese Cabbage (bok choy and napa) Chinese Mustard (gai choy) Collards Kale Kohlrabi Mizuna Mustard Greens Mustard Spinach Rape Greens Turnip Greens	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 to 10 fl oz	Apply with ground equipment in adequate water for uniform coverage (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) Under severe pressure use the higher recommended rates Only whole fields should be treated
	growing season Do not exceed 20 fl oz season Do not apply earlier th Regulator treatment Regardless of formula per acre per season Do not plant any crop	an 2 Knack Insect Knack Insect Gr an 14 days after tion do not apply other than those	Growth Regulator applications per rowth Regulator per acre per last <i>Knack</i> Insect Growth more than 0 134 lb pyriproxyfen with registered pyriproxyfen uses fter the last application

MANAGING WHITEFLY RESISTANCE Repeated use of the same class of 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 no more than two applications per growing season. *Knack* Insect Growth Regulator 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/A 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.

BULB VEGETABLES (Crop Group 3-07)

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects Knack Insect Growth Regulator 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 Thrip Western Flower Thrip Nestern Flower In Nestern Flower I		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
			vith local Integrated Pest Management ent (IRM) programs
			_
	acre per season		oly more than 0 134 lb pyriproxyfen per
			se with registered pyriproxyfen uses in ifter the last application

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 no more than two applications per growing season. *Knack* Insect Growth Regulator 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.

BUSHBERRY (Subgroup 13-07B)

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Knack Insect Growth Regulator 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.

be slower than typical contact insecticides

be slower than typical contact insecticides			
CROPS	PESTS	PRODUCT RATE	SPECIAL INSTRUCTIONS
		PER ACRE	
Aronia Berry Blueberry Highbush Blueberry Lowbush Buffalo Currant Chilean Guava Cranberry Highbush Currant Black Currant Red Elderberry European Barberry Gooseberry Honeysuckle Edible Huckleberry Jostaberry Juneberry (Saskatoon Berry) Lingonberry Native Currant Salal Sea Buckthorn Cultivars varieties and/or hybrids of these	Cherry Fruitworm Cranberry Fruitworm Lecanium Scale Knack Insect Growth Re	16 fl oz	Apply with ground or air equipment as a full coverage spray (minimum of 5 gals/A by air or 50 gals/A by ground) Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage Fruitworms: Apply when egg laying begins and again at petal fall Additional applications of another insecticide at 10 to 14 day intervals may be needed under high population pressure or sustained moth flight Lecanium 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. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in season use and rates of oil in your area.
	commonly used insection	ides to comply v	with local Integrated Pest ice Management (IRM) programs
	Do not apply within Do not make more t growing season		st sect Growth Regulator applications per
		oz of <i>Knack</i> Inse	ect Growth Regulator per acre per
	Regulator treatment	t	ter last Knack Insect Growth
	Regardless of formula per acre per seasor	•	ply more than 0 218 lb pyriproxyfen

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 no more than two applications per growing season. *Knack* Insect Growth Regulator 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.

CANEBERRY

(Subgroup 13-07A)
[Not For Use in] [California] [New York]

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Knack Insect Growth Regulator 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 PER ACRE	SPECIAL INSTRUCTIONS
Blackberry including Bingleberry Black Satin Berry Boysenberry Cherokee Blackberry Chesterberry Cheyenne Blackberry Coryberry Darrowberry Dewberry Dirksen Thornless Berry Himalayaberry Hullberry Lavacaberry Lowberry Lucretiaberry Mammoth Blackberry Marionberry Necterberry Olallieberry Oregon Evergreen berry Phenomenalberry Rangerberry Ravenberry Shawnee Blackberry Loganberry Raspberry including Bababerry Black raspberry Blackcap	Cherry Fruitworm Cranberry Fruitworm Lecanium Scale	16 fl oz	Apply with ground or air equipment as a full coverage spray (minimum of 5 gals/A by air or 50 gals/A by ground) Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage. Fruitworms: Apply when egg laying begins and again at petal fall. Additional applications of another insecticide at 10 to 14 day intervals may be needed under high population pressure or sustained moth flight. Lecanium 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. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in season use and rates of oil in your area.
Caneberry Framboise Frambueso Himbeere		mply with local Int	I mixed and/or alternated with commonly tegrated Pest Management (IPM) and Insect s
Keriberry Mayberry Red raspberry Thimbleberry Tulameen Yellow raspberry Wild raspberry Youngberry Cultivars varieties and/or hybrids of these	 Do not apply within Do not make more growing season Do not exceed 32 Do not apply earlied treatment 	n 7 days of harves than 2 <i>Knack</i> Ins fl oz of <i>Knack</i> Ins er than 14 days aft	

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 no more than two applications per growing season. *Knack* Insect Growth Regulator 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.

CITRUS FRUIT (Crop Group 10-10)

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Knack Insect Growth Regulator 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.

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Australian Desert Lime Australian Finger lime Australian Round Lime Brown River Finger Lime Calamondin Citron Citrus hybrids Grapefruit Japanese Summer Grapefruit Kumquat Lemon Lime Mediterranean Mandarin Mount White Lime New Guinea Wild Lime Orange Sour Orange Sweet Pummelo Russell River Lime Satsuma Mandarin Sweet Lime Tachibana Orange Tangelo			Apply with ground equipment in 200 to 1500 gals/A Apply in sufficient water volume for tree 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 Insect Growth Regulator may be applied with superior spray oils at 1/2 to 1%. Follow the manufacturer's directions and recommendations on timing and rates. NOTE. For scale apply only one application during emergence of scale crawlers per calendar year.
Tangerine (mandarin) Tangor Trifoliate Orange Uniq Fruit Cultivars varieties and/or	Insect Resistance Mana Do not apply within	agement (IRM) pro	grated Pest Management (IPM) and grams t Growth Regulator application per
hybrids of these			Growth Regulator per acre per season more than 0 134 lb pyriproxyfen per acre

continued

CITRUS FRUIT (Crop Group 10-10) - continued

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Australian Desert Lime Australian Finger lime Australian Round Lime Brown River Finger Lime Calamondin Citron Citrus hybrids Grapefruit Japanese Summer Grapefruit Kumquat Lemon Lime Mediterranean Mandarin Mount White Lime New Guinea Wild Lime		10 fl oz	Apply with ground application in 200 to 1500 gals/A Apply in sufficient water volume for tree size. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage. Apply when pests are just beginning to build and before infestation has occurred. Thorough coverage is essential for good control.
Orange Sweet Pummelo Russell River Lime Satsuma Mandarin Sweet Lime Tachibana Orange Tahiti Lime Tangelo Tangerine (mandarin) Tangor Trifoliate Orange Uniq Fruit Cultivars varieties and/or hybrids of these	 used insecticides to collinsect Resistance Mar Do not apply with Do not make more growing season Do not exceed 20 season Do not apply ea Regulator treatment 	omply with local Innagement (IRM) pain 1 day of harves than 2 Knack Institute Institut	sect Growth Regulator applications per sect Growth Regulator per acre per sect Growth Regulator per acre frowth of apply more than 0 134 lb

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 no more than two applications per growing season. *Knack* Insect Growth Regulator 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.

COTTON

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects Knack Insect Growth Regulator 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 Insect Growth Regulator does exhibit translaminar movement which means that Knack Insect Growth Regulator 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 RATE PER ACRE	SPECIAL INSTRUCTIONS	
Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly	8 to 10 fl oz	Apply with air or ground equipment in adequate water for uniform coverage	
Sweetpotato Whitefly	Do not apply less than 8 fl oz/A	By Air 3 to 10 gals/A By Ground 10 to 50 gals/A HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL	
		Make only one application per growing season	
		Begin application 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	

- Do not apply within 28 days of harvest
- Do not make more than 1 Knack Insect Growth Regulator application per growing season
- Do not exceed 10 fl oz Knack Insect Growth Regulator per acre per season
- Regardless of formulation do not apply more than 0 067 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 last application

MANAGING WHITEFLY RESISTANCE Repeated use of the same class of 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 one application per growing season. *Knack* Insect Growth Regulator 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.

CUCURBITS (Crop Group 9)

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects Knack Insect Growth Regulator 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 Insect Growth Regulator does exhibit translaminar movement which means that Knack Insect Growth Regulator 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
Balsam Apple Balsam Pear Bitter Melon Cantaloupe Chayote Chinese Cucumber Chinese Waxgourd Citron Melon Cucumber Edible Gourd Gherkin Momordica spp Muskmelon Pumpkin Summer Squash Watermelon Winter Squash	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 to 10 fl oz Do not apply less than 8 fl oz/A	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 PROVIDE IMPROVED INSECT CONTROL Begin application 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
 Do not apply within 7 days of harvest Do not make more than 2 Knack Insect Growth Regignowing season Do not exceed 20 fl oz Knack Insect Growth Regula Do not apply earlier than 14 days after last Knack Intreatment Regardless of formulation do not apply more than 0 per season Do not plant any crop other than those with registers treated areas sooner than 30 days after the last app 		Regulator per acre per season nack Insect Growth Regulator than 0 134 lb pyriproxyfen per acre	

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 no more than 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.

FRUITING VEGETABLES (Crop Group 8-10)

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects Knack Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed Since Knack Insect Growth Regulator 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 Insect Growth Regulator does exhibit translaminar movement which means that Knack Insect Growth Regulator 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
African Eggplant Bush Tomato Bell Pepper Cocona Currant Tomato Eggplant Garden Huckleberry Goji Berry Ground Cherry Martynia Naranjilla Okra Pea Eggplant Pepino Pepper Bell Pepper Nonbell Roselle Scarlet Eggplant Sunberry Tomatillo	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 to 10 fl oz Do not apply less than 8 fl oz/A of <i>Knack</i> Insect Growth Regulator when used as a stand alone application	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 PROVIDE IMPROVED INSECT CONTROL Begin application 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
Tomato Tree Tomato Cultivars varieties and/or hybrids of these	Banded Wing Whitefly Cabbage Looper Green Peach Aphid Greenhouse Whitefly (immatures & adults) Silverleaf Whitefly Sweetpotato Whitefly Tobacco Hornworm	6 to 8 fl oz	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 Insect Growth Regulator 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 tank.
	Insecticides to comply with Resistance Management and Do not apply within 1. Do not make more the season. Do not exceed 16 flow Do not apply earlier treatment. Regardless of formuluseason. Do not plant any cro	n local Integrated Pest Mana (IRM) programs I day of harvest han 2 <i>Knack</i> Insect Growth oz <i>Knack</i> Insect Growth Rea than 14 days after last <i>Knac</i> lation do not apply more tha	Regulator applications per growing gulator per acre per season ok Insect Growth Regulator an 0 109 lb pyriproxyfen per acre per stered pyriproxyfen uses in treated

continued

FRUITING VEGETABLES (Crop Group 8-10) - continued

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
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 + 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 Insect Growth Regulator may also be mixed or alternated with commonly used insecticides to comply with local IPM programs Comply with all applicable directions
	Kanada Inggat Canadh Da		restrictions and precautions on the registered label for <i>Danitol</i> 2 4 EC Spray
		local Integrated Pest Man	d/or alternated with commonly used nagement (IPM) and Insect Resistance
	Do not exceed 16 fl of Do not apply earlier teachers. Regardless of formule. Do not plant any crop	an 2 Knack Insect Growth oz Knack Insect Growth Re han 14 days after last Kna ation do not apply more th	Regulator applications per growing season egulator per acre per season ock Insect Growth Regulator treatment an 0 109 lb pyriproxyfen per acre per season istered pyriproxyfen uses in treated areas

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 no more than two applications per growing season. *Knack* Insect Growth Regulator 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.

GRAPE [Not For Use in New York]

GENERAL *Knack* Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects *Knack* Insect Growth Regulator 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 insects development evidence of activity will be slower than typical contact insecticides

PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
Glassy Winged Sharpshooter Grape Berry Moth Lecanium Scale	16 fl oz	Apply with ground equipment as a full coverage spray (50 to 200 gals/A) Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.
		Lecanium Scale Apply at either dormant delayed dormant or an in season cover spray At dormant delayed dormant you may 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 Follow local recommendations regarding in season

Knack Insect Growth Regulator 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 21 days of harvest
- Do not make more than 2 Knack Insect Growth Regulator applications per growing season
- Do not exceed 32 fl oz Knack Insect Growth Regulator per acre per season
- Do not apply earlier than 14 days after last Knack Insect Growth Regulator treatment
- Regardless of formulation do not apply more than 0 218 lb active of 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 no more than two applications per growing season. *Knack* Insect Growth Regulator 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.

HERB (Subgroup 19A) [Not For Use In] [California] [New York]

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects Knack Insect Growth Regulator 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 Insect Growth Regulator does exhibit translaminar movement which means that Knack Insect Growth Regulator 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
Angelica Balm Basil Borage Burnet Chamomile Catnip Chervil (dried) Chive Chive Chinese Clary Coriander (leaf) Costmary Cilantro (leaf) Curry (leaf) Dillweed Horehound Hyssop Lavender Lemongrass Lovage (leaf) Marigold Marjoram Nasturtium Parsley (dried) Pennyroyal	Whiteflies including Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 to 10 fl oz	Apply with ground equipment in adequate water for uniform coverage A minimum of 20 gallons per acre for ground applications HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL Begin applications when whiteflies reach threshold levels Under severe pressure use the higher recommended rates Treat only whole fields
Rosemary Rue Sage Savory Summer and Winter Sweet Bay Tansy Tarragon Thyme Wintergreen Woodruff Wormwood	 Do not apply within 1 (one) day of harvest Do not make more than 2 Knack Insect Growth Regulator applications per growing season Do not exceed 20 fl oz of Knack Insect Growth Regulator per acre per season Do not apply earlier than 14 days after last Knack Insect Growth Regulator 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 Knack Insect Growth Regulator uses in treated areas sooner than 30 days after the last application 		Regulator per acre per season ck Insect Growth Regulator Ib pyriproxyfen per acre per setered Knack Insect Growth

MANAGING WHITEFLY RESISTANCE Repeated use of the same class of 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 no more than two applications per growing season. *Knack* Insect Growth Regulator 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/A 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.

LEAFY VEGETABLES

Except Brassica Vegetables (Crop Group 4) [Not For Use in] [California] [New York]

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CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Amaranth (Chinese Spinach) Arugula (Roquette) Cardoon Celery Celery Chinese Celtuce Chervil Chrysanthemum Edible leaved Chrysanthemum Garland Corn Salad Cress Garden Cress Upland Dandelion Dock (Sorrel) Endive (Escarole) Fennel Florence Lettuce Head and Leaf Orach Parsley Purslane Garden	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 to 10 fl oz	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A) HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL Begin applications when whiteflies reach threshold levels per University/Extension recommendations Under severe pressure use the higher recommended rates Only whole fields should be treated
Purslane Winter Radicchio (Red Chicory) Rhubarb Spinach New Zealand Spinach Vine Spinach Swiss Chard	 applications per gr Do not exceed 20 per season Do not apply earlie Regulator treatments Regardless of form pyriproxyfen per a Do not plant any c 	e than 2 Knack Instrument of the country of the cou	st sect Growth Regulator It Growth Regulator per acre It June 10 134 lb It with registered pyriproxyfen It days after the last application

MANAGING WHITEFLY RESISTANCE Repeated use of the same class of 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 no more than two applications per growing season. *Knack* Insect Growth Regulator 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/A 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.

LEAVES OF ROOT & TUBER VEGETABLES Human Food or Animal Feed (Crop Group 2) [Not For Use in] [California] [New York]

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Knack Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed. Since Knack Insect Growth Regulator 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 Insect Growth Regulator does exhibit translaminar movement which means that Knack Insect Growth Regulator 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
Beet Garden Burdock Edible Carrot Cassava Bitter Cassava Sweet Celeriac Chervil Turnip Rooted Chicory Dasheen (Taro) Parsnip Radish Radish Oriental (daikon) Rutabaga Salsify Black Sugar Beet Sweet Potato Tanier Turnip	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 to 10 fl oz	Apply with ground equipment in adequate water for uniform coverage (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) Under severe pressure use the higher recommended rates Only whole fields should be treated
Yam True	 Do not make more growing season Do not exceed 16 Do not apply earlie treatment Regardless of form per season Do not plant any in treated areas 	fl oz Knack Insect Ger than 14 days after I nulation do not apply crop other than the	ct Growth Regulator applications per Growth Regulator per acre per season last Knack Insect Growth Regulator more than 0 109 lb pyriproxyfen per acre use with registered pyriproxyfen uses after the last application reated areas

MANAGING WHITEFLY RESISTANCE Repeated use of the same class of 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 no more than two applications per growing season. *Knack* Insect Growth Regulator 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/A 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.

LEGUME VEGETABLES Succulent or Dried (Crop Group 6)

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Knack Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed. Since Knack Insect Growth Regulator 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 Insect Growth Regulator does exhibit translaminar movement which means that Knack Insect Growth Regulator 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
Beans (Lupinus) Grain Lupin Sweet Lupin White Lupin White Sweet Lupin Beans (Phaseolus) 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) Guar Jackbean	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 to 10 fl oz	EARLY SEASON WHITEFLY PROGRAM Apply 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
Lablab Bean Lentil Pea (Pisum)			
Dwarf Pea Edible podded Pea English Pea Field Pea Garden Pea Green Pea Snowpea Sugar Snap Pea Pigeon Pea Soybean[¹] Sword Bean	['California only] ['New York only] [not for use on soybeans] Do not apply within 7 days of harvest Do not make more than 2 <i>Knack</i> Insect Growth Regulator applications per growing season Do not exceed 20 fl oz of <i>Knack</i> Insect Growth Regulator per acre per season Do not apply earlier than 14 days after last <i>Knack</i> insect Growth Regulator treatment Regardless of formulation do not apply more than 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 for livestock feed		

LEGUME VEGETABLES Succulent or Dried(Crop Group 6) - continued

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 no more than two applications per growing season. *Knack* Insect Growth Regulator 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.

OLIVE

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects Knack Insect Growth Regulator 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

PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Black Scale San Jose Scale	13 to 16 fl oz	Apply with ground equipment in 100 to 400 gals/A Apply in sufficient water volume for tree size. Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.
		Apply at either dormant delayed dormant or an in season cover spray At dormant delayed dormant use a spray oil at the manufacturer's recommended oil rate. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in season use and rates of oil in your area.
		Under heavy scale pressure use the higher rate of <i>Knack</i> Insect Growth Regulator

Knack Insect Growth Regulator 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 7 days of harvest
- Do not make more than 2 Knack Insect Growth Regulator applications per growing season
- Do not exceed 32 fl oz of Knack Insect Growth Regulator per acre per season
- Do not apply earlier than 14 days after last Knack Insect Growth Regulator treatment
- Regardless of formulation do not apply more than 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 no more than two applications per growing season. *Knack* Insect Growth Regulator 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.

PASTURE GRASS AND RANGELAND [Not For Use in] [California] [New York]

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Knack Insect Growth Regulator 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 insects development evidence of activity will be slower than typical contact insecticides.

PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Cricket Grasshopper Locust	8 to 10 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 PROVIDE IMPROVED INSECT CONTROL
		Begin application when pests reach threshold levels per University/Extension recommendations
		Under severe pressure use the higher recommended rates

Knack Insect Growth Regulator 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 make more than 2 Knack Insect Growth Regulator applications per growing season
- Do not exceed 20 fl oz Knack Insect Growth Regulator per acre per season
- Regardless of formulation do not apply more than 0 134 lb pyriproxyfen per acre per season
- Do not apply earlier than 14 days after last Knack Insect Growth Regulator treatment

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 no more than two applications per growing season. *Knack* Insect Growth Regulator 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.

PAWPAW [Not For Use in] [California] [New York]

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Knack Insect Growth Regulator 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 Insect Growth Regulator does exhibit translaminar movement which means that Knack Insect Growth Regulator 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
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 <i>Knack</i> Insect Growth Regulator

In season sprays of Knack Insect Growth Regulator may not protect fruit from blemishes by scale

Knack Insect Growth Regulator 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 Insect Growth Regulator applications per growing season
- Do not exceed 48 fl oz of *Knack* Insect Growth Regulator per acre per season
- Do not apply earlier than 14 days after last Knack Insect Growth Regulator treatment
- Regardless of formulation do not apply more than 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 no more than three applications per growing season. *Knack* Insect Growth Regulator 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 [Not For Use in] [California] [New York]

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Knack Insect Growth Regulator 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.

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 Insect Growth Regulator may be applied with superior spray oils at 1/2 to 1%. Follow the manufacturer's directions and recommendations on timing and rates.

Knack Insect Growth Regulator 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 Insect Growth Regulator applications per calendar year
- Do not exceed 16 fl oz of Knack Insect Growth Regulator per acre per season
- Do not apply earlier than 21 days after last *Knack* Insect Growth Regulator treatment
- Regardless of formulation do not apply more than 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 no more than two applications per calendar year. *Knack* Insect Growth Regulator 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.

POME FRUIT (Crop Group 11-10)

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Knack Insect Growth Regulator has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed. Since Knack Insect Growth Regulator 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
Apple Azarole Crabapple Loquat Mayhaw Medlar Quince Quince Chinese Quince Japanese Tejocote Cultivars varieties and/or hybrids of these	Codling Moth Suppression of Obliquebanded Leafroller Pandemis Leafroller	13 to 16 fl oz	Apply by ground with airblast equipment in a minimum of 50 gals/A. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage. 1st Generation Codling Moth. Apply at Biofix plus 100 degree days (this is usually close to petal fall). Make a second application 14 to 21 days later or timed to coincide with peak moth flights. For subsequent applications if needed apply other insecticides registered for Codling Moth control. The addition of oil has been shown to increase Codling. Moth activity of Knack Insect Growth.
	Florida Red Scale	13 to 16 fl oz	Regulator Follow local recommendations regarding in season use and rates of oil in your area Obliquebanded and Pandemis Leafroller Apply to the overwintering larvae at the pink to petal fall tree growth stage Knack Insect Growth Regulator does not directly control the larvae but inhibits normal pupation and adult emergence Apply by ground with airblast equipment
	Lecanium Scale San Jose Scale		in a minimum of 50 gals/A. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage. Apply at delayed dormant through pink. For delayed dormant use a superior spray oil at the manufacturer's recommended rate of oil. Under heavy scale pressure, use the higher rate of Knack Insect Growth Regulator.
			Scale For control in season make application in cover sprays when scale crawlers first emerge. The use of oil at the crawler emergence stage has been shown to improve control. Follow local recommendations regarding in season use and rates of oil in your area.

continued

POME FRUIT (Crop Group 11-10) continued

PRODUCT			
CROPS	PESTS	RATES PER ACRE	SPECIAL INSTRUCTIONS
Apple Azarole Crabapple Loquat Mayhaw Medlar Quince Quince Chinese Quince Japanese Tejocote Cultivars varieties and/or hybrids of these	Green Apple Aphid Rosy Apple Aphid Spirea Aphid Spotted Tentiform Leafminer Western Tentiform Leafminer	10 to 16 fl oz	Apply by ground with airblast equipment in a minimum of 50 gals/A Thorough coverage is critical for control it is essential to use adequate water volume to ensure thorough coverage Leafminers Apply at peak moth flight for control of 1st or 2nd generation This usually occurs at pre pink to pink apple stage for 1st generation and 2nd cover for 2nd generation Rosy Apple Aphid Apply at 1/2 green apple growth stage Green Apple & Spirea Aphid Apply when aphids first appear but before aphids are colonized
	<u> </u>	10.1.10.5	TIMING IS CRITICAL FOR ACCEPTABLE APHID CONTROL
Pear Pear Asian	Pear Psylla	13 to 16 fl oz	Apply by ground with airblast equipment in 75 to 400 gals/A with a superior spray oil at manufacturer's recommended rates for the stage of growth. It is essential to use adequate water volume to ensure thorough coverage.
			Apply a single application during the delayed dormant to pink stage of growth at 16 fl oz/A or make two applications from delayed dormant through petal fall stage of growth at 13 to 16 fl oz/A Make application just before sustained egg lay is anticipated
			DO NOT SKIP ROWS DURING APPLICATION
			For in season control of pear psylla use an insecticide recommended for this use
	Lecanium Scale San Jose Scale	13 to 16 fl oz	Apply by ground with airblast equipment in 100 to 400 gals/A at delayed dormant with a superior spray oil at the manufacturer's recommended rates. Under heavy scale pressure, use the higher rate.
			Apply in sufficient water volume for tree size. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.
			For control of scale in season make application in cover sprays when scale crawlers first emerge. The use of oil at the crawler emergence stage has been shown to improve performance. Follow local recommendations regarding in season use and rates of oil in your area.

continued

POME FRUIT (Crop Group 11-10) - continued

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS		
Pear Pear Asian	Codling Moth Suppression of Obliquebanded Leafroller Pandemis Leafroller	13 to 16 fl oz	Apply by ground with airblast equipment in 100 to 400 gals/A 1st Generation Codling Moth Apply at Biofix plus 100 degree days Make a second application 14 to 21 days later or timed to coincide with peak moth flights For subsequent applications if needed apply other insecticides registered for Codling Moth control. The addition of oil has been shown to increase Codling Moth activity of Knack Insect Growth Regulator.		
			Follow local recommendations regarding in season use and rates of oil in your area For additional generations apply other insecticides registered for Codling Moth Control		
	Knack Insect Growth Regulator 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 45 days of harvest Do not make more than 2 Knack Insect Growth Regulator applications per growing season Do not exceed 32 fl oz of Knack Insect Growth Regulator per acre per season Do not apply earlier than 14 days after last Knack Insect Growth Regulator				
	treatment Regardless of formulation do not apply more than 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 no more than two applications per growing season. *Knack* Insect Growth Regulator 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 [Not For Use in] [California] [New York]

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Knack Insect Growth Regulator 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 Insect Growth Regulator does exhibit translaminar movement which means that Knack Insect Growth Regulator 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

- Do not apply within 14 days of harvest
- Do not make more than 3 Knack Insect Growth Regulator applications per growing season
- Do not exceed 48 fl oz of Knack Insect Growth Regulator per acre per season
- Do not apply earlier than 14 days after last Knack Insect Growth Regulator treatment
- Regardless of formulation do not apply more than 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

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 no more than three applications per growing season. *Knack* Insect Growth Regulator 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 Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

ROOT AND TUBER VEGETABLES (Crop Group 1) [Not For Use In] [California] [New York]

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Knack Insect Growth Regulator 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 Insect Growth Regulator does exhibit translaminar movement which means that Knack Insect Growth Regulator 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
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	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 Radish Oriental (dai kon) Rutabaga Salsify Salsify Black Salsify Spanish Skirret Sweet Potato Tanier Turmeric Turnip Yam Bean Yam True	growing season Do not exceed 16 fl oz Do not apply earlier th treatment Regardless of formula acre per season	on 2 Knack Insect of Knack Insect of Knack Insect of an 14 days after later to not apply rother than those whan 30 days after	

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 no more than two applications per growing season Knack Insect Growth Regulator 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

SMALL FRUIT VINE CLIMBING CROPS (EXCEPT GRAPE)

(Subgroup 13-07E) [Not For Use in] [California] [New York]

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Knack Insect Growth Regulator 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 PER ACRE	SPECIAL INSTRUCTIONS
Berry Schisandra Gooseberry Grape Amur River Kiwifruit Fuzzy Kiwifruit Hardy Maypop Cultivars varieties and/or hybrids of these	Scale	16 fl oz	Apply with ground or air equipment as a full coverage spray (minimum of 5 gals/A by air or 50 gals/A by ground) Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage 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. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in season use and rates of oil in your area.
	commonly Manager Do not Do not growing Do not season Do not Regular Regard	ly used insecticide nent (IPM) and Insapply within 30 da make more than 2 season exceed 32 fl oz of apply earlier than tor treatment	lator may be mixed and/or alternated with s to comply with local Integrated Pest sect Resistance Management (IRM) programs ys of harvest Knack insect Growth Regulator applications per Knack Insect Growth Regulator per acre per 14 days after last Knack Insect Growth do not apply more than 0 218 lb pyriproxyfen

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 no more than two applications per growing season. *Knack* Insect Growth Regulator 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.

STONE FRUIT (Crop Group 12)

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Knack Insect Growth Regulator 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
Apricot Cherry Chickasaw Plum Damson Plum Fresh Prune Japanese Plum Nectarine Peach Plum Plumcot Prune	Lecanium Scale San Jose Scale Suppression of Peach Twig Borer Oriental Fruit Moth	13 to 16 fl oz	Apply in 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 dormant delayed dormant or as an in season cover spray. At dormant delayed dormant use a spray oil at the manufacturer's recommended oil rate. Under heavy scale pressure use the higher rate of Knack Insect Growth Regulator. Peach Twig Borer. Knack Insect Growth Regulator has provided good suppression of Peach Twig Borer when applied delayed dormant through bloom sprays. Use a spray oil at the manufacturer's recommended rate for the stage of crop growth.
	In season sprays of <i>Knack</i> Insect Growth Regulator may not protect fruit from blemist scale Knack Insect Growth Regulator may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management IPM and Insect Resista Management (IRM) programs Do not apply within 14 days of harvest Do not make more than 3 Knack Insect Growth Regulator applications per growing season Do not exceed 48 fl oz of Knack Insect Growth Regulator per acre per season Do not apply earlier than 14 days after last Knack Insect Growth Regulator treatm Regardless of formulation do not apply more than 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 no more than three applications per growing season. *Knack* Insect Growth Regulator 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 Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

STRAWBERRY [Not For Use in New York]

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

Knack Insect Growth Regulator exhibits translaminar movement which means that Knack Insect Growth Regulator 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 RATE PER ACRE	SPECIAL INSTRUCTIONS
Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	10 fl oz	Apply with ground equipment as a full coverage spray (100 to 400 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

Do not apply within 2 days of harvest

- Do not make more than 2 Knack Insect Growth Regulator applications per growing season
- Do not exceed 20 fl oz Knack Insect Growth Regulator per acre per season
- Do not apply earlier than 30 days after last *Knack* Insect Growth Regulator treatment Regardless of formulation do not apply more than 0 134 lb of 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

MANAGING WHITEFLY RESISTANCE Repeated use of the same class of 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 no more than two applications per growing season. *Knack* Insect Growth Regulator 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 Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

TREE NUTS (Crop Group 14)

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

СКОР	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Almond	Black Scale San Jose Scale Suppression of Peach Twig Borer	13 to 16 fl oz	Apply with ground equipment in 100 to 400 gals/A Coverage is essential for good control. Apply in sufficient water volume for tree size. Use of higher water volume will assure better coverage. Apply at either dormant, delayed dormant or an in season cover spray. At dormant, delayed dormant, use a spray oil at the manufacturer's recommended oil rate. In a cover spray make, applications when scale crawlers first emerge. Follow local recommendations regarding in season use and rates of oil in your area. Knack insect Growth Regulator has provided good suppression of Peach Twig Borer when applied delayed dormant through bloom sprays.
	Do not make moreDo not exceed 16	fl oz of Knack Insect	Growth Regulator application per growing season Growth Regulator per acre per season more than 0 109 lb pyriproxyfen per acre per

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 one application per growing season. *Knack* Insect Growth Regulator 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 Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

continued

TREE NUTS (Crop Group 14) - continued

		PRODUCT			
CROPS	PESTS	RATES PER ACRE	SPECIAL INSTRUCTIONS		
Beechnut Brazil Butternut Cashew Chestnut Chinquapin Filbert (Hazelnut)	Codling Moth Dusky Veined Aphid Walnut Aphid	16 fl oz	Apply with ground equipment in 100 to 400 gals/A Apply in sufficient water volume for tree size. Thorough coverage is critical for control it is essential to use adequate water volume to ensure thorough coverage. 1st Generation Codling Moth. Apply at Biofix.		
Hickory Macadamia Pecan Pistachio Walnut	Black Scale	13 to 16 fl oz	plus 100 degree days Make a second application 14 to 21 days later or timed to coincide with peak moth flights. For subsequent applications if needed apply other insecticides registered for Codling Moth control. The addition of oil has been shown to increase Codling Moth activity of Knack Insect Growth Regulator. Follow local recommendations regarding in season use and rates of oil in your area.		
	Brown Soft Scale Italian Scale Lecanium Scale San Jose Scale Walnut Scale Suppression of Peach Twig Borer	13 (0 16 11 02	gals/A at either dormant delayed dormant or an in season cover spray. The addition of a superior spray oil at dormant or delayed dormant may improve scale control. However do not use a spray oil in oil sensitive crops such as Walnut. Follow manufacturer s recommendations regarding use and rates of oil for your area.		
			In a cover spray make applications when scale crawlers first emerge Follow local recommendations regarding in season use and rates of oil in your area		
			Under heavy scale pressure use the higher rate		
			Coverage is essential for good control Apply in sufficient water volume for tree size. Use of higher water volume will assure better coverage.		
	Knack Insect Growth Regulator may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs				
	season • Do not exceed 32	e than 2 <i>Knack</i> Inse	ect Growth Regulator applications per growing ect Growth Regulator per acre per season er last <i>Knack</i> Insect Growth Regulator treatment		
		 Regardless of formulation do not apply more than 0 218 lb pyriproxyfen per acre per 			

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 no more than two applications per growing season. *Knack* Insect Growth Regulator 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.

TROPICAL & SUBTROPICAL FRUIT

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects Knack Insect Growth Regulator 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	PEST	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
Acerola Atemoya Avocado Biriba Black Sapote Canistel Cherimoya Custard Apple Feijoa Guava Ilama Jaboticaba Longan Lychee Mamey Sapote Mango Passionfruit	Scale	16 fl oz	Apply with ground or air equipment as a full coverage spray (minimum of 5 gals/A by air or 50 gals/A by ground) Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage. 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. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in season use and rates of oil in your area.
Papaya Pulasan Rambutan Sapodilla Soursop Spanish Lime Star Apple Starfruit Sugar Apple Wax Jambu	to comply v (IRM) progri	with local Integrater rams t apply within 14 of t make more than to t exceed 32 floz of t apply earlier than dless of formulati	or may be mixed and/or alternated with commonly used insecticides ed Pest Management (IPM) and Insect Resistance Management days of harvest 2 Knack Insect Growth Regulator applications per growing season of Knack Insect Growth Regulator per acre per season in 14 days after last Knack Insect Growth Regulator treatment ion do not apply more than 0 218 lb pyriproxyfen per acre per

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 no more than two applications per growing season. *Knack* Insect Growth Regulator 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.

WATERCRESS [Not For Use In] [California] [New York]

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Knack Insect Growth Regulator 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 insects development evidence of activity will be slower than typical contact insecticides.

Knack Insect Growth Regulator exhibits translaminar movement which means that Knack Insect Growth Regulator 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 RATE PER ACRE	SPECIAL INSTRUCTIONS
Sharpshooters Whitefly	8 to 10 fl oz	Apply with ground equipment as a full coverage spray (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
		Under severe pressure use the higher recommended rates
		Only whole fields should be treated

Knack Insect Growth Regulator 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 7 days of harvest
- Do not make more than 2 Knack Insect Growth Regulator applications per growing season
- Do not exceed 20 fl oz Knack Insect Growth Regulator per acre per season
- Do not apply earlier than 14 days after last Knack Insect Growth Regulator treatment
- Regardless of formulation do not apply more than 0 134 lb of 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

MANAGING INSECT RESISTANCE Repeated use of the same class of 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 no more than two applications per growing season. *Knack* Insect Growth Regulator 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 IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

WHITE SAPOTE [Not For Use in New York]

GENERAL Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Knack Insect Growth Regulator 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.

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 200 to 1500 gals/A Apply in sufficient water volume for tree 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 Insect Growth Regulator may be applied with superior spray oils at 1/2 to 1%. Follow the manufacturer's directions and recommendations on timing and rates. NOTE. For scale apply only one application during emergence of scale crawlers per calendar year.

Knack Insect Growth Regulator 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 1 Knack Insect Growth Regulator application per growing season
- Do not exceed 16 fl oz of Knack Insect Growth Regulator per acre per season
- Regardless of formulation do not apply more than 0 134 lb pyriproxyfen per acre per season

Citrus Black Fly Citrus Leafminer Citrus Whitefly	10 fl oz	Apply with ground application in 200 to 1500 gals/A Apply in sufficient water volume for tree size. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.
		Apply when pests are just beginning to build and before infestation has occurred. Thorough coverage is essential for good control.

Knack Insect Growth Regulator 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 Insect Growth Regulator applications per growing season
- Do not exceed 20 fl oz of Knack Insect Growth Regulator per acre per season
- Do not apply earlier than 21 days after last Knack Insect Growth Regulator treatment
- Regardless of formulation do not apply more than 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 no more than two applications per growing season. *Knack* Insect Growth Regulator 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 Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage disposal or cleaning of equipment

PESTICIDE STORAGE

Store in a cool dry place
Keep pesticide in original container
Keep container closed when not in use
Do not put concentrate or dilute into food or drink containers
Not for use or storage in or around the home

For help with any spill leak fire or exposure involving this material call day or night 800-892-0099

PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility

CONTAINER HANDLING

[Use the following statement for containers smaller than 50 lbs]

[Nonrefillable container Do not reuse or refill this container Clean container promptly after emptying Triple rinse as follows. Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available 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.]

[Use the following statements for containers greater than 50 lbs]

[Nonrefillable container Do not reuse or refill this container Triple rinse container promptly after emptying Triple rinse as follows Empty the remaining contents into application equipment or a mix tank Fill the container 1/4 full with water Replace and tighten closures. Tip container on its side and roll it back and forth ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling if available.]

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