		United States		[Regist	ation	() <u>O. Approvel expires 2-28</u> OPP Identifier Number
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		Applicatio	on for Pesti	cide - Secti	on l		······································
1. Company/Product Nur 70051-69	mber			A Product Mener nis Szuhay	ger/brencher	446 3. Pr	oposed Classification
4. Company/Product (Na San 420 WG	ime)		PM#	Licrobna 1	lesticides b.	inh	
5. Name and Address of Certis USA, L.L.C. 9145 Guilford Roa		ode)	(b)(i), to:	-	similar or ider	ntical in co	FIFRA Section 3(c)(3) mposition and labeling
Columbia, MD 21	046 this is a new address			luct Name			*
			Section -				
Amendment - Exp	response to Agency lette	r dated	[Agency letter	plicationNOT	IFICAT	10N 10-10-04 1 pc
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1. Material This Product	Will Be Packaged In:						
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No Certification must submitted Content Submitted Content Submitted Contact Point (Comp) Name Christine A. Dively I certify that the st I acknowledge that both under applical C. Signature	Yes No If "Yes" Unit Packaging wgt Its Information Container I is Affixed to Product	4. Size(s) Retainer 4. Size(s) Retainer 4. Size(s) Retainer Paper (Stencil for identification Certification this form end a misleading stat	Yes No If "Yes" Package wgt ail Container 1 lb., 2.5 lb. raph glued ed Section - n of individual to Title Director of Reg tion all attachments t	No. per container	Location of La on cont necessary, to p	Metal Plastic Glass Paper Other (S bel Directio ainer rocess this Telephone 301-483-3	aprlication No. (Include Area Code) 3806 6. Date Application Received

EPA Form 8570-1 (Rev. 3-94) Previous editions are obsolete.

SAN 420 I® WG BIOLOGICAL INSECTICIDE

For Control of Insect Pests on Fruits, Nuts, Vegetables, Cotton, and Soybeans



FOR ORGANIC PRODUCTION

ACTIVE INGREDIENT:

Bacillus thuringiensis, subspecies kurstaki solids, spores, and insecticida toxins*		85.0%
INERT INGREDIENTS:	*****	<u>15.0%</u>
TOTAL		100.0%

* The percentage active ingredient does not indicate product performance and potency measurements are not federally standardized.

KEEP OUT OF REACH OF CHILDREN

CAUTION

NOTIFICATIO Date Reviewen /2-11-to Reviewed By:

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

Made in the USA EPA REG. NO.: 70051-69

Lot No.

EPA EST. NO.: 70051-CA-001

Net Contents:

Manufactured by: CERTIS USA, L.L.C. 9145 GUILFORD ROAD, SUITE 175 COLUMBIA, MD 21046

SAN 4201®WG is a registered trademark of Certis USA, LLC

SAN 420 I® WG BIOLOGICAL INSECTICIDE

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS (AND DOMESTIC ANIMALS) CAUTION

Harmful if inhaled or absorbed through the skin. Avoid breathing vapors or spray mist. Prolonged or frequently repeated skin contact may cause an allergic reaction in some individuals. Avoid contact with skin, eyes or clothing. Causes moderate eye irritation. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

FIRST AID	
If in eyes	 -Hold eyes 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 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 treatment advice.
If inhaled	-Move person to fresh air. -If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. -Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Hot Line Number: 1-800-255-3924.

Personal Protective Equipment:

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

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.

All mixer/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

Engineering controls statements:

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40CFR 170.250 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations:

Users should:

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

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determines the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean water mark. Do not contaminate water when disposing of equipment washwaters.

DIRECTIONS FOR USE

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

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

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

Do not 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.

Do not allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls

- Waterproof gloves
- Shoes plus socks

Unless specifically stated, do not apply this product through any type of irrigation system. Refer to the Directions for Use booklet attached to this container for further directions.

STORAGE AND DISPOSAL

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

Pesticide Storage:	Store in original container in a cool, dry place inaccessible to children and pets and away from heat and direct sunlight. Protect from freezing. Storage at temperatures above 90°F may impair effectiveness. When kept at room temperature (+21°c to 24°) SAN 420 I® WG will keep its activity approximately 2 years.
Pesticide Disposal:	Pesticide, spray mixture, or rinse water that cannot be used according to label instruction must be disposed of according to Federal, State, or Local procedures.
Container Disposal:	Completely empty container into application equipment. Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration or if allowed by state

and local authorities, by burning. If burned, stay out of smoke,

(DIRECTIONS FOR USE) SAN 420 I® WG BIOLOGICAL INSECTICIDE

6117

Made in the U.S.A.

EPA Reg. No. 70051-69

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

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Prosper with pesticides by using them properly! Read and follow label directions.

This labeling must be in the possession of the user at the time of the pesticide application.

<u>NOTICE</u>: Read "WARRANTY" on the container or in this Directions for Use section before buying or using. If terms are not acceptable, return at once unopened.

Unless specifically stated, do not apply this product through any type of irrigation system.

SAN 420 I® WG is a biological insecticide specific for the control of lepidopterous larvae (see Application Rates section).

SAN 420 I® WG may be applied up to and on the day of harvest.

SAN 420 I® WG is a registered trademark of Certis USA, L.L.C.

Manufactured by: Certis USA LLC, 9145 Guilford Road, Suite 175, Columbia, Maryland 21046

GENERAL USE INSTRUCTIONS

For most consistent control, apply at first sign of newly hatched worms (1st and 2nd instar larvae). Instructions for specific crops are located in ADDITIONAL INSTRUCTION sections under APPLICATION RATES.

Reapply as necessary under a pest management program that includes close scouting.

If rapid knockdown of heavy worm or non-lepidopterous populations is necessary, include an effective contact insecticide in combination with SAN 420 I® WG.

For heavy worm infestations, use the higher SAN 420 I® WG rate. During situations of dense foliage and/or rapid growth, shorter application intervals and increased water carrier volumes will provide better crop coverage and improve SAN 420 I® WG performance.

Use tank mixes are for use only in states where the tank mix product and application site are registered.

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Read and follow <u>all</u> label directions for use for other pesticides used as tank mix partners with SAN 420 I® WG for specific application rates, application timing, and precautions.

Mixing:

Fill spray or mixing tank ³/₄ full. Turn on agitation and pour SAN 420 I® WG into water while maintaining continuous agitation. Add other spray material (if any) and add balance of water. Agitate as necessary to maintain suspension. Do not allow diluted sprays to remain in the tank for more than 48 hours. SAN 420 I® WG is formulated to provide desirable coverage and adherence to leaf surfaces. Additional adjuvants, spreaders, or stickers may be added to improve product performance, especially under heavy dew or rainy conditions. Combinations with commonly used insecticides, fungicides, or other spray tank adjuvants are generally not deleterious to SAN 420 I® WG if the mix is used promptly. Before mixing in the spray tank, test physical compatibility by mixing all components in a small container in proportionate quantities.

APPLICATION VOLUMES

SAN 420 I® WG can be applied by ground or air in water sufficient to insure thorough and even coverage. Thorough and uniform crop coverage is required for adequate insect control. Applications at higher water volumes have demonstrated improved control of targeted pests. Early morning or evening applications, when air is calm, are generally best for aerial applications.

INSECTS CONTROLLED

8/17

WHEN USED AS DIRECTED, SAN 420 I® WG WILL CONTROL THE FOLLOWING INSECTS

COMMON NAME	SCIENTIFIC NAME
Alfalfa caterpillar	Colias eurytheme (Boisduval)
Almond moth	Cadra cautella (Walker)
Armyworm	Pseudaletia unipuncta (Haworth)
Artichoke plume moth	Platyptilla carduidactyla (Riley)
Bagworm	Thyridopteryx ephemeraeformis (Haworth)
Banana skipper	Erionota thrax (Haworth)
Blueberry leafrollers	various
Blueberry spanworm	Itame argillacearia (Pack.)
Bollworm, Tomato Fruitworm, Corn Earworm	Helicoverpa zea (Boddie)
California oak moth	Phrygnidia californica (Packard)
Cherry fruitworm	Grapholita packardi (Zeller)
Citrus cutworm	Xylomyges curialis
Codling moth	Cydia pomonella (linnaeus)
Cotton Leafworm	Alabama argillacea (Hubner)
Cotton leafperforator	Bucculatrix thurberiella (Busck)
Cutworm	various, family Noctuidae
Diamondback moth	Plutella xylosteella (Linnaeus)
Douglas-fir tussock moth	Orgyia pseudotsugata (McDunnough)
Elm spanworm	Ennomos subsignaria (Hubner)
Eruopean corn borer	Ostrinia nubilalis (Hubner)
Fall cankerworm	Alsophila pometaria (Harris)
Fall webworm	Hyphantria cunea (Drury)
Filbert webworm	Melissopus latiferreanus (Walsingham)
Fruittree leafroller	Archips argyrospila (Walker)
Grape leaffolder	Desmia funeralisi (Hubner)
Grapeleaf skeletonizer	Harrisina americana (Guerin)
Green cloverworm	Plathypena scabra (Fabricius)
Green fruitworm	Lithophane antennata (Walker)

Gypsy mothLymantria dispar (Linnaeus)Helicoverpa spp.Helicoverpa spp.Heliothis spp.Heliothis spp.HornwormsManduca spp.Imported cabbagewormPieris rapae (Linnaeus)Jack pine budwormChloristoneura pinus (Freeman)LoopersvariousMimosa webwormHomadaula anisocentra (Meyri)Naval orangewormAmyelois transitella (Walker)Obliquebanded leafrollerChoristoneura rosaceanai (Harris)Ominverous leafrollerPlatynota stultanaOmniverous leafterCnephasia longana (Haworth)OrangedogPapilio cresphontes (Cramer)Orange tortrixArgyrotaenia citrana (Fernald)Oriental fruit mothGrapholita Molesta (Busck)Pecan nut casebearerAcrobasis nuxvorella (Neunzig)Redbanded leafrollerSchizura concinna (J.E. Smith)Rindworm complexvariousRoughskinned cutwormAthetis mindara (Barnes & McDunnough)Saltmarsh caterpillerEstigmene Acrea (Drury)Sod webwormCrambus muabilitsSouthwestern corn borerDiatraea grandiosella (Dyar)Spruce budwormChoristoneura funiferanai (Clemens)Tent caterpillarVarious, family lasiocamidaeTobacco budwormChoristoneura funiferanai (Clemens)Tent caterpillarVarious, family lasiocamidaeTobacco budwormChoristoneura funiferanai (Clemens)Tent caterpillarVarious, family lasiocamidaeTobacco budwormKeiferia lycopersicella (Walsingham)	COMMON NAME	SCIENTIFIC NAME
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Tobacco hornworm Manduca sexta (Linnaeus)	Tent caterpillar	various, family lasiocamidae
	Tobacco budworm	Heliothis virescens (Fabricius)
Tomato pinwormKeiferia lycopersicella (Walsingham)	Tobacco hornworm	Manduca sexta (Linnaeus)
	Tomato pinworm	Keiferia lycopersicella (Walsingham)

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COMMON NAME	SCIENTIFIC NAME
Tropical sod webworm	Herpetogramma phaeopteralis (Guenee)
Tufted apple bud moth	Platynota idaeusalis (Walker)
Variegated leafroller	Platynota flavedana (Clemens)
Velvetbean caterpillar	Anticarsia gemmatalis (Hubner)
Western tussock moth	Orgyia vetusta (Boisduval)

Rate Selection Considerations

Application rates are typically given as a range:

Use Lower rate ranges when tank mixing with contact insecticides labeled for worm control or under conditions of light worm infestations or when uniformly small worms are present.

Use Medium rate ranges when multiple worm life stages are present, continuous egg hatches are occurring or young or light armyworm infestations exist.

Use Upper rate ranges for heavy worm infestations, mature (larger) worms or for moderate to heavy infestations of armyworm, bollworm or other difficult to control worm species.

Use application rate amount of SAN 420 I® WG in water sufficient to insure thorough coverage depending on type of crop, application equipment and requirements of state regulations. Low volume applications may be used, but proper application equipment must be used to insure adequate coverage. Thorough and uniform crop coverage is required for adequate insect control.

APPLICATION RATES

CROPS	LBS./ACRE
VEGETABLE CROPS	
Artichokes	0.5-1.50
ADDITIONAL INSTRUCTIONS: For ground applications, apply in a minimum of 100 gal. of water per acre with a spray interval of 10 days or less.	
To aid in resistance management of the artichoke plume moth, apply 0.5 lb/A in combination with a pyrethroid by ground or air. Use and follow all label direc mix partner regarding application, timing, gallonage, and schedules.	tions of the tank
Asparagus, Beans (Green, Lima, Mung), Broccoli, Broccoli Raab (Rapini), Brussels Sprouts, Cabbage, Cardoon, Carrots, Cauliflower, Celeriac, Celery, Chick Peas, Chinese Broccoli, Chinese Cabbage, Collards, Cucumbers, Dry Bulb Onions, Eggplants, Garlic, Green Onions, Greens (Dandelion, Turnip, Mustard, Beet, China), Herbs (Basil, Cilantro, Dill, Oregano, Thyme, etc.), Horseradish, Kale, Kohl Rabi, Leeks, Lettuce (Endive, Romaine, Head Lettuce, Escarole, Butter Crunch, Leaf, etc.), Melons (Cantaloupe, Crenshaw, Honeydew, Muskmelon, Watermelon, etc.), Okra, Onions, Parsley, Parsnips, Peas, Peppers, Potatoes, Pumpkins, Radishes, Rutabaga, Salsify, Spinach, Squash (Summer and Winter), Sweet Corn, Sweet Potatoes, Swiss Chard, Table Beets, Tomatoes, Turnip Root, Watercress, Yams	0.25-1.50
ADDITIONAL INSTRUCTIONS:	
Apply as necessary to maintain control.	
FIELD CROPS	
Alfalfa (Hay and Seed), Sudan Grass, Hay Crops & Other Forage Crops	0.25-1.50
ADDITIONAL INSTRUCTIONS: Under conditions of rapid plant growth and rapidly increasing armyworm populations (10 worms or greater per 180° sweep) use the highest rate. Use a contact insecticide in combination with SAN 420 I® WG if 4 th and 5 th instars of multiple worm species are present in the crop and continuous egg laying is occuring.	
The addition of a spreader sticker to SAN 420 I® WG may provide improved performance.	
Canola and Evening primrose ADDITIONAL INSTRUCTIONS: Apply as necessary to maintain control.	0.25-1.50

CROPS	LBS./ACRE
Dry Beans and Peas, Lentils, Mint, Peanuts, Rice, Safflower, Soybeans Sugar Beets, Sunflower, Sorghum ADDITIONAL INSTRUCTIONS: Apply as necessary to maintain control	0.25-1.50
Field Corn, Pop Corn, Seed Corn ADDITIONAL INSTRUCTIONS : Make initial application when economically damaging population exist. Repeat as necessary to maintain control. Applications must be made to early instars prior to entering the ear or plant.	0.5-1.50
Hops ADDITIONAL INSTRUCTIONS: Begin treatment as soon as possible after hatching and before larvae are protected by lead folds.	0.5-1.50
Jojoba ADDITIONAL INSTRUCTIONS: Apply in a minimum of 50 gallons of water per acre by ground equipment or a minimum of 10 gallons of water by aerial equipment. Thorough coverage of foliage is essential and dictates the minimum spray volumes necessary.	0.5-1.50
Small Grains ADDITIONAL INSTRUCTIONS: Apply as necessary to maintain control	0.5-1.50
Tobacco ADDITIONAL INSTRUCTIONS: Apply as necessary to maintain control.	0.25-1.50
Cotton Including Arizona and California Early and Mid-Season ADDITIONAL INSTRUCTIONS: Repeat as necessary throughout season to maintain control. If egg laying frequency indicates future moderate to heavy worm populations, time application spray to coincide with the 2 nd instar larvae. During periods of high temperatures, worms will progress through 1 st and 3 rd instars very rapidly and early application timing is necessary for control.	0.25-1.50
To be effective, SAN 420 I® WG spray must be deposited at the larvae feeding site. When plant cover is dense and worms are feeding in the lower 2/3 portion of the plant, aerial application of SAN 420 I® WG may not provide adequate control.	
For the control of light to moderate infestations, apply at first sign of egg- laying or newly-hatched worms $(1^{st}$ instar larvae).	

CROPS	LBS./ACRE
Except Arizona and California ADDITIONAL INSTRUCTIONS:	
 Helcoverpa zea and Heliothis virescens Early Season Begin applications when at least 50% of plants are at pinhead square stage and Helicoverpa zea or Heliothis virescens are present at damaging levels. If Helicoverpa zea is the predominant species or if worm populations are high, use a higher rate or tank mix with a labeled ovicide (see below). 	0.25-1.50
Mid-Season Repeat as necessary throughout season to maintain control. Time application at peak egg hatch or 1 st instar larvae. If egg laying is heavy and constant over a three-to-five day period, time application when eggs laid on the first day have developed into 2 nd instar larvae. During periods of high temperature, worms will progress through 1 st and 3 rd instars very rapidly and early application timing is necessary for control. Continue applications as needed based on field scouting up to pyrethroid spray window.	0.25-1.50
To be effective, SAN 420 I® WG spray must be deposited at the larval feeding site. When plant cover is dense and worm are feeding in the lower 2/3 portion of the plant, aerial application of SAN 420 I® WG may not provide adequate control.	
For added control of <i>Helicoverpa zea</i> and <i>Heliothis virescens</i> , tank mix SAN 420 I® WG with a labeled ovicide, such as amitraz (0.125-0.25 lb a.i./acre), methomyl (0.125 lb a.i./acre), profenofos (0.25 lb a.i./acre), or thiodicarb (NOT FOR CALIFORNIA) (0.125 lb a.i./acre). For added control of pyrethroid resistant <i>Heliothis virescens</i> , include SAN 420 I® WG as a tank mix partner with pyrethroid applications.	
Spodoptera exigua Apply when Spodoptera exigua population densities are damaging. Time application when the majority of the worm population is in the egg-hatch to 3^{rd} instar stage. If populations are dense, use a higher rate.	0.50-1.50
To be effective, SAN 420 I® WG spray must be deposited at the larval feeding site. When the plant canopy is dense, for best control tank mix SAN 420 I® WG with a labeled larvicide, such as chlorpyrifos (0.25-1.0 lb a.i./acre), methomyl (0.33-0.75 lb a.i./acre), profenofos (0.5-1.0 lb a.i./acre), or thiodicarb (NOT FOR CALIFORNIA) (0.6-0.9).	

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CROPS	LBS./ACRE
FRUIT, NUT & VINE CROPS	·
Apples and Pears ADDITIONAL INSTRUCTIONS: Apply when newly hatched larvae appear and before leaves are rolled. Continue applying as a part of the normal cover spray program until pest is adequately controlled. Apply when caterpillars are actively feeding (2 nd -4 th instars)	0.5-2.00
Avocados ADDITIONAL INSTRUCTIONS: Apply as necessary to maintain control. Begin treatment as soon as possible after hatching and before larvae are protected by leaf folds. (Amorbia [Mexican leafroller] is suppressed only.)	0.5-1.50
Bananas ADDITIONAL INSTRUCTIONS: Hawaii only. Use calibrated ground equipment with adequate water to apply to point of runoff.	0.5-1.50
Citrus ADDITIONAL INSTRUCTIONS: Use 50-600 gallons of water per acre when using ground equipment and 10 gallons of water minimum per acre by air. (Amorbia [Mexican leafroller] is suppressed only.)	0.5-1.50
Blueberries, Caneberries, Currants, Kiwi ADDITIONAL INSTRUCTIONS: Apply by ground equipment only. Begin treatment as soon as possible after hatching. For leafrollers, apply before larvae are protected by leaf folds.	0.25-1.50
Grapes ADDITIONAL INSTRUCTIONS: Start treating as soon as possible after hatching and before larvae are protected by leaf folds.	0.5-1.50

CROPS	LBS./ACRE
Almonds, Apricots, Cherries, Filberts, Nectarines, Peaches, Pecans Persimmons, Pistachios, Plums, Pomegranate, Prunes, Walnuts ADDITIONAL INSTRUCTIONS: For leafrollers, start treating as soon as possible after hatching and before larvae are protected by leaf folds. Apply when caterpillars are actively feeding (2 nd to 4 th instar).	0.5-2.00
Application timing is very important for good pecan nut casebearer suppression. Consult your local university or extension agent for information concerning specific modeling that predicts egg lay, typical application dates, and scouting techniques for your area. SAN 420 I® WG must be present at egg hatch for best control. Make application when the majority of eggs are in the pink stage. For best control make two applications 7 days apart. If only one application is made, a minimum of 0.5 lb. should be applied.	
Melons (Also see vegetables) ADDITIONAL INSTRUCTIONS: Apply at first sign of hatch before larvae enter fruit. Repeat as necessary to maintain control.	0.25-1.50
Strawberries ADDITIONAL INSTRUCTIONS: Apply as necessary to maintain control.	0.25-1.50
In a tank mix with contact insecticides, use a minimum of ½ lb. of SAN 420 I® WG for the control of armyworm.	
SHADE TREES and ORNAMENTALS (INCLUDING ROSES)	0.25-1.50
ADDITIONAL INSTRUCTIONS: Apply when leaf expansion reaches 40% to 50% as infestation warrants. If eggs hatch over a long period of time, or if reinfestation occurs, spray about 14 days after first application.	
Apply when most larvae are $3^{rd} - 4^{th}$ instar. Also consider the opening of the bud cap to ensure foliage exposure.	
Apply after eggs have hatched and early instar larvae are feeding on exposed foliage.	
TURF AND GRASS SEED PRODUCTION	0.50-1.50
ADDITIONAL INSTRUCTIONS: Repeat as necessary throughout season to maintain control.	

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LBS./ACRE

CROPS

STORED SOYBEANS, GRAINS (INDIAN MEAL MOTH, ALMOND MOTH)

ADDITIONAL INSTRUCTIONS:

To control and prevent Indian Meal Moth and Almond Moth infestations of stored soybeans and grains, prepare a spray mixture which includes 1 gallon of water for every 1.5 oz. by weight of SAN 420 I® WG. Apply spray mixture either by treating the top 4 inches of grain as it is being augered into storage (applying 0.6 pint of mixture per bushel in the grain stream), or by treating the surface of grain after it is in the bin. The Table below can be used as a guide in determining the total amount of SAN 420 I® WG needed according to the bin diameter or the number of bushels to be treated.

Bin Diameter <u>ft.)</u>	Surface Area (sq. ft.)	Bushels (to 4 in. (depth)	SAN 420 I® WG Rate (by weight)	
			Grams	<u>0Z.</u>
8	50	13	21	0.40
12	113	30	50	0.90
16	201	53	85	1.50
20	314	84	120	2.15
24	452	120	185	3.25
28	615	163	255	4.50
32	804	214	326	5.75

To insure thorough coverage when making applications to the grain surface after it is in the bin, apply spray mixture in three (3) applications. Mix the grain with a scoop or rake to a depth of four (4) inches after each application.

Treat stored grain anytime, but for best results, treat grain at the time it is placed into storage or shortly thereafter, or in the early spring prior to egg-laying. Full season control is normally experienced. Re-treat only if reinfestation occurs.

For the protection of bagged grain, apply spray mixture to entire grain mass, and mix thoroughly prior to bagging. SAN 420 I® WG at 3 oz. by weight per 10 gallons of water will treat approximately 100 bushels.

Treated grain may be used at any time after treatment.

FLOWERS AND ORNAMENTALS

SAN 420 I WG may also be used on flowers and ornamentals outdoors and in the greenhouse at a rate of 0.25 - 1.50 lb. per 100 gallons of water for control of listed insects on this label.

	LBS./ACRE			
GUIDE FOR SMALL SPRAY VOLUME MIXING				
Rate	Conversion Rate*			
Lbs./A	Teaspoons/Gallon			
1/8	1/4			
1/4	1/2			
1/2	1			

STORAGE AND DISPOSAL

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

- **Pesticide Storage:** Store in original container in a cool, dry place inaccessible to children and pets and away from heat and direct sunlight. Protect from freezing. Storage at temperatures above 90°F may impair effectiveness. When kept at room temperature (+21°c to 24°) SAN 420 I® WG will keep its activity approximately 2 years.
- **Pesticide Disposal:** Pesticide, spray mixture, or rinse water that cannot be used according to label instruction must be disposed of according to Federal, State, or Local procedures.
- **Container Disposal:** Completely empty container into application equipment. Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Warranty

Certis USA LLC warrants that the material contained herein conforms to the description on the label and is reasonably fit for the purposes referred to in the directions for use. Timing and method of application, weather, watering practices, nature of soil, the insect problem, condition of the crop, incompatibility with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herein. NO OTHER EXPRESS OR IMPLIED WARRANTY OF THE FITNESS OR MERCHANTABILITY IS MADE.

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