	PM	90	55947-	-8/		page 19	. در
	u Envirónmental	nited States Protection Ington, DC 2046	Agency		<u>OMB No. 2070</u> Registratio Amendme Other		
		Application	for Pesticide	- Section	1		
1. Company/Product Number Sandoz Agro, Inc./			2. EPA Prod Phil Hu	uct Manager		3. Proposed Classification	ed
4. Company/Product (Name) Sandoz Agro, Inc./		nsecticid	e 90				
5. Name and Address of App	licant <i>(Include ZIP Co</i>	de)	(b)(i), my p to:	roduct is sim		with FIFRA Section 3(c)(3 in composition and labeling	
Check if this	is a new address		Product	Name			
			Section - II				
Amendment - Explain Resubmission in respo Notification - Explain t Explanation: Use addition Vault WP Biologica notice of May 3, qualifies for redu label for Vault in were made to the	onse to Agency letter below. al page(s) if necessar al Insecticide 1995 (Vol. 60 uced restricte n which the R	y. (For soction is a B.t , No. 85, ed entry i	Ag Ag M Ott and Section II.) subsp. kurst p. 21966) as o ntervals. We ced to 4 hours	ency letter dat le Too" Applica her - Explain be taki liste one of the arc subm	ation, Now. ed in Feder pesticido Ltting a re	cal Register es which evised	
			Section - III				
Aaterial This Product Will Child-Resistant Packaging Yes No Certification must be submitted	Be Packaged In: Unit Packaging Yes No If "Yes" Unit Packaging wgt	No. per container		aging No. per container	P G P	ntainer Actal Nastic Nass Japer Other (Specify)	
3. Location of Net Contents I	ontainer	4. Size(s) Reta	aph [5. Lo	cation of Label	Directions	
		Stencil					·
			Section - IV			an this and in the second second	
1. Contact Point <i>(Complete</i> Name Frederick F. Pisz	· ·		r of individual to be co Title Registration		Te	iss this application.) Ilephone No. (Include Area Co 708) 390–3698	de)
I certify that the state I acknowledge that an both under applicable	ments I have made of y knowlingly false of	Certificat n this form and misleading stat	ion I attachments there	to are true, acc	urate and compl	6. Bate Application Received	
Frederick F.	54 kan		Registration S	pecialist		····	••
4. Typed Name Frederick F. Pisz	kiewicz (5. Data lovember 27,	1995		• • • • •	• •

3-94) Previous editions are obsolete.

I certify that this notification is complete in accordance with the provisions of EPA's reduced REI policy and that no other changes have been made to the labeling or the confidential statement of formula of this product. I further understand that if this notification does not comply with the terms of EPA's reduced REI policy, this product may be in violation of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA. I understand that the Agency may direct a change in the REI of a product subject to this notice if the Agency determines that a change is appropriate, and that products may be subject to regulatory and enforcement action if the appropriate changes are not made.

Frederick F. Piszkiewicz Registration Specialist for SANDOZ AGRO, INC.

Invember 29, 1995 Date

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VAULT[®] WP BIOLOGICAL INSECTICIDE

REDUCED REI 4 HR. 3 922

ACTIVE INGREDIENT:

Bacillus thuringiensis subspecies <u>kurstaki</u> , potency of 16,000 International Units	
per milligram*	3.2%
INERT INGREDIENTS:	<u>96.8%</u>
Total	100.0%

*Equivalent to 7.2 billion International Units per Ib. (8.0 billion Spodoptera units per Ib.)

VAULT[®] is a trademark of Sandoz Ltd.

CAUTION

KEEP OUT OF REACH OF CHILDREN

See Side Panel For Additional Precautionary Statements

STORAGE AND DISPOSAL

STORAGE: Store in a cool place. Activity may be impaired by storage at temperatures above 90° F. Do not contaminate water, food, or feed by storage or disposal.

DISPOSAL:

<u>Pesticide</u> - Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

<u>Container</u> - Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning.

SANDOZ AGRO, INC.	EPA Reg. No. 55947-81
1300 East Touhy 🕹 venue	
Des Plaines, Illinois 60018	EPA Est. No. 55947-CA-2

VAULT® WP BIOLOGICAL INSECTICIDE

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS CAUTION

May cause skin and eye irritation and skin sensitization reactions in certain individuals. Avoid contact with skin, eyes, or clothing. Discontinue use if reaction occurs.

STATEMENT OF PRACTICAL TREATMENT

If on skin: Wash with plenty of water. Get medical attention if irritation persists.

If in eyes: Flush eyes with plenty of water. Get medical attention if irritation persists.

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, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering controls statements:

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

User Safety Recommendations: Users should:

- o Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- o Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- o 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

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.

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.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

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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.

VAULT® is a biological insecticide specific for the control of lepidopterous larvae (see Recommended Application Rates section).

VAULT attacks the larval gut and must be ingested by the insect to be effective.

Since the active ingredient, <u>Bacillus</u> thuringiensis, is exempt from tolerance requirements, **VAULT** may be applied up to and on the day of harvest.

GENERAL USE INSTRUCTIONS

For most consistent control, apply at first sign of newly hatched worms (first and second instar larvae). Instructions for specific crops are located in the Additional Information Section in the Use Directions.

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 VAULT.

For heavy worm infestations use the higher VAULT rate. During situations of dense foliage and/or rapid growth, increasing water carrier volumes will provide better crop coverage and improve VAULT performance.

Mixing:

Fill spray or mixing tank ¾ full. Turn on agitation and pour VAULT 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. VAULT 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 VAULT if the mix is used promptly. Before mixing in the spray tank, it is advisable to test physical compatibility by mixing all components in a small container in proportionate quantities.

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GROUND APPLICATION

Unless otherwise stated, use recommended amount of VAULT in a minimum of 20 gallons of water per scree capending on type of crop and requirements of state regulations.

AERIAL APPLICATION

Use recommended amount of VAULT in at least 3 gallons of water per acre. Applications at higher water volumes have demonstrated improved control of targeted pests. Apply early morning or evening when air is calm.

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VEGETABLE CROPS

CROP	INSECT	RATE LBS./ACRE		ADDITIONAL INSTRUCTIONS
Artichokes	Artichoke Plume Moth	; ;	 1-2 ½	Apply in a minimum of 100 gallons of water per acre with a spray interval of 10 days or less.
				Apply 1 lb./acre in combination with ASANA XL, AMBUSH or SUPRACIDE aerially to aid in resistance management of the artichoke plume moth. Use and follow all label directions of the tank mix partner regarding application timing, gallonage and schedules.
Artichokes			-	
Asparagus	Armyworm*		1-3	Repeat as necessary
Beans				to maintain control
(Green, Lima, Mung)				
Broccoli	Diamondback Moth	1-2½		*Use to suppress
Brussel Sprouts	Green Cloverworm	1⁄2 - 1		light populations of
Cabbage	Hornworm	1/4 - 1		small (first to second
Cardoon				instar) armyworms.
Carrots	Imported	1⁄2 - 1		
Cauliflower	Cabbageworm			
Celeriac	Looper	1/2 - 2 1/2		
Celery				
Chick Peas				
Chinese Broccoli				
Chinese Cabbage	Salt Marsh	1-2		
Collards	Caterpillar			
Cucumbers				
Dry Bulb Onions				
Eggplants	European Corn	2-3		Also see Biogation
Garlic	Borer			
Green Onions				
Greens (Dandelion,	Tomato pinworn	n 1½-2½	!	
Turnip, Mustard,				
Beet, China)				
Herbs (Basil,				
Cilantro, Dill,				
Oregano, Thyme, etc.)				
Horseradish				

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Kale Kohl Rabi Leeks Lettuce (Endive, Romaine, Head Lettuce, Escarole Butter Crunch, Leaf, etc.)

RECOMMENDED APPLICATION RATES

VEGETABLE CROPS

CROP	INSECT	RATE LBS/ACRE	ADDITIONAL INSTRUCTIONS
		·····	
Melons (Cantaloupe,			
Crenshaw, Honeydew,			
Muskmelon,			
Watermelon, etc.)			
Okra			
Onions			
Parsley			
Parsnips			
Peas			
Peppers			
Potatoes			
Pumpkins			
Radishes			
Rappini			
Rutabaga			
Salsify			
Spinach			
Squash (Summer			
and Winter)			
Sweet Corn			
Sweet Potatoes			
Swiss Chard			
Table Beets			
Tomatoes			
Turnip Root			
Watercress			
Yams			

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FRUIT, NUT, & VINE CROPS

CROP		RATE BS/ACRE	ADDITIONAL INSTRUCTIONS
Apples and Pears	Fruittree Leafroller	1-2	Apply when newly hatched larvae appear and before
	Gypsy Moth	1-2	leaves are rolled.
	Redbanded Leafroller	1-2	Continue applying as a part of the normal cover spray
	Tufted Apple Budmoth	1-2	program until pest is adequately controlled.
	Variegated Leafroller	1-2	
	Omnivorous Leafroller	1-2½	
	Tent Caterpillar	1-2	Apply when caterpillars are
	Pandemis Leafrolle	er 1-2	actively feeding (2nd-4th instars).
	Peach Twigborer	2-6	
	Oriental Fruitmoth	2-6	
	Navel Orangeworn	n 2-6	
	Codling Moth	2-8	
Avocados	Looper	2-21/2	Apply as necessary to
	Orange Tortrix	1-2	maintain control.
	Omnivorous Leafroller	1-2	Begin treatment as soon as possible after hatching and before larvae are protected by leaf folds.
	Amorbia	2	Suppression only.
Bananas	Banana Skipper	1-2	Hawaii only. Use calibrated ground equipment with adequate water to apply to point of runoff.
Citrus	Citrus Cutworm	1-3	Use 50-600 gallons of water
	Fruittree Leafroller	1-2	per acre when using ground equipment and 10 gallons of
	Orangedog	1/2 1	water minimum per acre by air

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	Amorbia	2-3
Blueberries Caneberries	Blueberry Leafroller	1-2
Currants	Cherry Fruitworm	1/2-1
Kiwi	Fruittree Leafroller	1-2
	Gypsy Moth	1-2
	Green Fruitworm	1/2-1
	Looper	1-2
	Orange Tortrix	1-2
	Omnivorous Leafroller	1-2
	Blueberry Spanwor	m 1-2

Suppression only.

Apply by ground equipment only. Begin treatment as soon as possible after hatching. For leafrollers, apply before larvae are protected by leaf folds.

RECOMMENDED APPLICATION RATES

FRUIT, NUT, & VINE CROPS

CROP	INSECT	RATE LBS/ACRE	ADDITIONAL INSTRUCTIONS
Grapes	Grape Leaffolder Grapeleaf Skeletonizer	1-2½ 1-2½	Apply by ground equipment in up to 200 gallons total
	Omnivorous Leafroller	1-2½	spray per acre to obtain thorough coverage of leaf surfaces. Start treating
	Orange Tortrix	1-2½	as soon as possible after
	Saltmarsh Caterpillar	1-2½	hatching and before larvae are protected by leaf folds.
Almonds	Fall Webworm	1-2	For leafrollers, start
Apricots	Filbert Webworm	1-2	treating as soon as
Cherries Filberts	Omnivorous Leafroller	1-2	possible after hatching and before larvae are protected
Nectarines	Citrus Cutworm	1-2½	by leaf folds.
Peaches Pecans	Redhumped Caterpillar	1-2	
Persimmons	Tent Caterpillar	1-2	Apply when caterpillars are
Plums Pomegranate	Roughskinned Cutworm	½-1	actively feeding (Second to fourth instar).
Prunes	Pecan Nut Casebearer	1-2½	

Walnuts	Peach Twigborer	2-6	For single applications, in pecans, for pecan nut
	Oriental Fruitmoth	2-6	casebearer, use a minimum
	Navel Orangeworm	2-6	of 1.5 lb/acre. A split
	Codling Moth	2-8	application of 1.0 lb./acre may provide better flexibility and improved targeting of egg hatches. Make first application when majority of eggs are in white or pink stage. Make the second application within 7-10 days.
Melons (Also see Vegetables)	Rindworm Complex	1-1 ½	Apply at first sign of hatch before larvae enter fruit. Repeat as necessary to maintain control.

FRUIT, NUT, & VINE CROPS

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CROP	INSECT	RATE LBS/ACRE	ADDITIONAL
Strawberries	Armyworm* Gypsy Moth Looper Roughskinned Cutworm	1-3 1-2 ½-1 1-2	Apply as necessary to maintain control. Use 20 gallons of water minimum per acre when using ground equipment and 5 gallons water minimum per acre by aircraft. In a tankmix with contact insecticides, rates as low as 1 lb. of VAULT may be used for the control of armyworm.

*Use to suppress light populations of small

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(first to second instar) armyworms.

RECOMMENDED APPLICATION RATES

FIELD CROPS

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CROP	INSECT	RATE LBS/ACRE	ADDITIONAL INSTRUCTIONS
Alfalfa (Hay and Seed)	Alfalfa Caterpillar	½-1	Under conditions of rapid plant growth and rapidly
Sudan Grass Hay Crops & Other Forage Crops	Armyworm* Looper	1-3 ½-2	increasing armyworm populations (10 worms or greater per 180° sweep) use the highest rate. Against heterogenous worm populations, where 4th and 5th instars are present, and continuous egg laying, applications may provide variable control. Under these conditions, the addition of a contact insecticide in combination with VAULT is recommended.
			to VAULT may provide improved performance *Use to suppress light populations of small (1st to 2nd instar) armyworms.
Small Grains A	ırmyworm *	2-3	Apply as necessary to maintain control. *Use to suppress light populations of small (first to second instar) armyworms.
•	ooper)mnivorous	½-2 1-2	Apply as necessary to maintain control.

Leaftier Spotted Cutworm Oblique Banded Leafroller

1-2 1-2

Begin treatment as soon as possible after hatching and before larvae are protected by leaf folds

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RECOMMENDED APPLICATION RATES

FIELD CROPS

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CROP	INSECT	RATE LBS/ACRE	ADDITIONAL INSTRUCTIONS
Canola Evening Primrose	Armyworm * Diamondback Moth	1-3 1-2½	Apply as necessary to maintain control.
	Imported Cabbageworm Looper Hornworms	1 ½-1 ½-2 ¼-½	
			*Use to suppress light populations of small (first to second instar) armyworms.
Field Corn Pop Corn Seed Corn	Armyworm*	1-3	Make initial application when economically damaging populations exist. Repeat as necessary to maintain control. Applications must be made to early instars p ior to entering the ear or plant.
	Southwestern Corn Borer	2-3	Aids in control.
	European Corn Borer	2-3	Also see Biogation.

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*Use to suppress light populations of small (first to second instar) armyworms.

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.

RECOMMENDED APPLICATION RATES

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FIELD CROPS

Jojoba

Looper

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(Anacamptodes

CROP	INSECT	RATE LBS/ACRE	ADDITIONAL INSTRUCTIONS
Dry Beans Peas Lentils	Armyworm* Green Cloverworm	1-3 1-2	Apply as necessary to maintain control.
Mint Peanuts Rice	Looper Salt Marsh	1-2 1-2	
Safflower Soybeans Sugar Beets	Caterpillar Velvetbean Caterpillar	1-2	
Sunflower	<u>Helicoverpa</u> spp. (<u>Heliothis</u> spp.)	
Sorghum	Cutworm	1-3	*Use to suppress light populationsof small (first to second instar) armyworms.
Tobacco	Looper Tobacco	1-2 ¼-1	Apply as necessary to maintain control.

Hornworm Tobacce Budworm 1-2½

RECOMMENDED APPLICATION RATES

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COTTON - Except Arizona and California

TIMING	INSECT	RATE LBS/ACRE	ADDITIONAL INSTRUCTIONS
Early	Bollworm Tobacco Budwormspecies.		For early season management of bollworm and budworm Initiate applications when 50% of plants are at pinhead square cotton stage, independent of bollworm and budworm egg and larval counts, or at first egg lay, whichever occurs earlier. Continue applications on 5 day spray interval up to synthetic pyrethroid spray window. For added worm control, tankmixing of VAULT with a labeled ovicide, such as, methomyl (0.125 lb. a.i./acre), profenofos (0.25 lb. a.i./acre), or thiodicarb (0.125-0.25 lb. a.i./acre) is recommended. Read and follow all precautions and restrictions on tankmix product labels.

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COTTON (CALIFORNIA/ARIZONA)

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TIMING	INSECT	RATE LBS/ACRE	ADDITIONAL INSTRUCTIONS
Early and Mid-Season	Armyworm* Cotton Leaf Perforator Cotton Leafworm Looper Saltmarsh Caterpillar	1-3 1-2 1-2 1-2½ 1-2	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 second instar larvae. During periods of high temperatures, worms will progress to the third instar very rapidly and early application timing is necessary for control.
			To be effective, VAULT spray must be deposited at the larval feeding site. When plant cover is dense and worms are feeding in the lower 2/3 portion of the plant, aerial application of VAULT may not provide adequate control.
			*Use to suppress light populations of small (first to second instar) armyworms.
	Bollworm Tobacco Budworm	1-3 1-3	For the suppression of light to moderate infestations, apply at first sign of egg laying or newly hatched worms (first instar larvae).

SHADE TREES, ORNAMENTALS (Including Roses)

PESTS	RATE LBS/ACRE	ADDITIONAL INSTRUCTIONS
Spring and Fall Cankerworm Spanworm Tent Caterpillar Gypsy Moth	1/2 - 1 1/2 - 1 1/2 - 1 1/2 - 1	Apply when leaf expansion Elm 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 applications.
Spruce Budworm	⅓1	Apply when most larvae are 3rd- 4th instar. Also consider the opening of the bud cap to ensure foliage exposure.
Jackpine Budworm	1⁄2 - 1	
Douglas Fir Tussock Moth	1/2 - 1	
Bagworm	1/2 - 1	
California Oak Moth	1/2 - 1	Apply after eggs have
Western Tussock Moth	1/2 - 1	hatched and early instar
Fruittree Leafroller	1/2 - 1	larvae are feeding on
Mimosa Webworm	1/2 - 1	exposed foliage.
Redhumped Caterpillar	1/4-1	
Fall Webworm	1/4 - 1/2	
Armyworm*	2-21/2	
Omnivorous Leafroller	1-2	*Use to suppress light populations of small (first to second instar) armyworms.
TURF AND GRASS SEED PRODUCTION	<u>)N</u>	
Tropical Sodwebworm	2	Repeat as necessary
Armyworm*	2	throughout season to
Sodwebworm	2	maintain control.

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*Use to suppress light populationsof small (first to second instar) armyworms.

BIOGATION - Center Pivot Irrigation Application for European and Southwestern Corn Borer in Field Corn (Not For Use in California)

APPLICATION INSTRUCTIONS

Rate - For control of European Corn Borer and suppression of Southwestern Corn Borer using centerpivot irrigation equipment, apply a mixture of 2 to 3 lbs of VAULT per acre plus a registered sticker.

Sticker and VAULT Mixture - VAULT should be added to the tank first, then the recommended sticker. (See instructions below).

For best performance, make application in 0.5 inch/acre or less.

Filter size should allow for smooth flow of VAULT from the tank to injector pump (18-20 mesh).

ATTENTION

INSTRUCTIONS FOR DILUTED APPLICATION WITH STICKER

- 1. Pre-clean and flush nurse tank, lines, screen canister and pump with insectigation oil until they are <u>water-free</u>.
- 2. Use a 20 mesh screen or larger. A finer mesh screen may prevent the smooth flow of VAULT from the nurse tank into the pump.
- 3. Calibrate with insectigation oil.
- 4. Begin agitation.
- 5. Pour VAULT into tank and then the oil.
- 6. Maintain agitation during application.
 - o If you stop injecting the VAULT-oil mix due to rain, mechanical failure or etc., be sure to mix well and re-agitate uniformly before continuing application.
- 7. When you rinse the VAULT container, do so with insectigation oil. Avoid water contamination for oil-diluted applications.
- 8. Fine-tune calibration.

9. When application is complete, thoroughly flush the injection system and sprinkler system with insectigation oil.

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Check label for Federal Chemigation requirements. Follow State and Local requirements for chemigation.

APPLICATION EQUIPMENT CAUTIONS

The active ingredient in VAULT will settle in the tank and injections lines; adequate agitation must be provided before and during the injection period. Use only in systems that apply uniformly and have appropriate check valves. Do not apply when windspeed favors drift. When application is complete, thoroughly flush the injection system and sprinkler lines.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination.

The pesticide injection pipeline should contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline should contain either a functional, normally closed solenoid-operated valve connected to the system interlock or a functional vacuum relief valve to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system should contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point when pesticide distribution is adversely affected.

STORED SOYBEANS, GRAINS

(Indian Meal Moth, Almond Moth)

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 3 oz. by weight of VAULT. The spray mixture may be applied 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 VAULT needed according to the bin diameter or the number of bushels to be treated.

Bin Diameter	Surface Area	Bushels	VAULT Rate
(ft)	(sq ft)	(to 4 in depth)	(by weight)

			Grams	oz
8	50	13	42	1.50
12	113	30	100	3.50
16	201	53	170	6.00
20	314	84	240	8.50
24	452	120	370	13.00
28	615	163	510	18.00
32	804	214	652	23.00

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.

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Stored grain may be treated 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. VAULT at 12 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

VAULT may also be used on flowers and ornamentals outdoors and in the greenhouse at a rate of ½-3 lb per 100 gallons of water for control of listed insects on this label.

GUIDE FOR SMALL SPRAY VOLUME MIXING

Rate	Conversion Rate*
<u>Lbs/A</u>	Teaspoons/Gallon
1/2	1
1	2
2	4

*Assumes Application to spray runoff.

LIMITATION OF WARRANTY AND LIMITATION OF LIABILITY

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Read this Limitation of Warranty and Limitation of NOTICE: Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded. It is impossible to eliminate all risks inherently 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 Sandoz or seller. **A**11 such risks shall be assumed by buyer or user. Sandoz warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, under normal use conditions, subject to the risks described above. Sandoz makes no other express or implied warranty of fitness or of merchantability or any other express or implied warranty. In no event shall Sandoz or seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. The exclusive remedy of the user or buyer, and the exclusive liability of Sandoz 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 the product or, at the election of Sandoz or seller, the replacement of the product. Sandoz and seller offer this product, and buyer and user accept it, subject to the foregoing limitations of warranty and limitation of liability, which may not be modified by any oral or written agreement.