Please read instructions on reverse before completing form.		1 1-1	070 0000	America 11 20 03
(A) United States Environmental Office of Pesticide Progra Washington, DC Application for	Protection Agency Ims (H7505C) 20460	Registr Amend Other	ation	Approval expires 11-30-93 OPP Identifier Number 196617
c Secti	on I			
1. Company/Product Number	2. EPA Product Mai		3. Pr	oposed Classification
264-379	Dennis Edwar			None Restricted
4. Company/Product(Name) LARVIN brand 3.2 Thiodicarb Insecticide/Ovicide Aqueous F		19	ثا	
				FIFRA Section 3(c)(3)
5. Name and Address of Applicant (Include ZIP Code) Rhone-Poulenc Ag Company	-			mposition and labeling
2 T. W. Alexander Drive	to:			
RTP, NC 27709	EPA Reg. No.			
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Check if this is a new address	Product Name			
Section		_ <u>.</u>		
Amendment - Explain below	Final printed I Agency letter	labels in response r dated	to	
Resubmission in response to Agency letter dated				
x Notification - Explain below.	Me Too' App	notecik		а <sup>н</sup>
	Other - explai	in below.		
requirement of PR Notice 88-6. Notification of compliance with PR Notic APPLICATION TO WATER.	ce 93-3, LABELIN	G STATEMENT		ACTION ACTION ACTION 129193
Section				
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# LARVIN<sup>®</sup> brand 3.2 Thiodicarb Insecticide/Ovicide

## **Aqueous Flowable**

ACTIVE INGREDIENT	
THIODICARB: Dimethyl N, N' (thiobis [(methylimino)	
carbonyloxy]] bis [ethanimidothioate]	
INERT INGREDIENTS	67.5% by wt.
Containe 3.2 pounds active thiodicarb per LLS, gallon	
EPA Bed. No. 264-379	EPA Est. No. 264-MO-02

# KEEP OUT OF REACH OF CHILDREN WARNING AVISO

PRECAUCION AL USARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

For <u>MEDICAL</u> and <u>TRANSPORTATION</u> Emergenices <u>ONLY</u> Call 24 Hours A Day 1-800-334-7577 For <u>PRODUCT USE</u> Information Call 1-800-334-9745

## STATEMENT OF PRACTICAL TREATMENT

May be fatal if swallowed. May be harmful if inhaled or absorbed through the skin. Antidote is Atropine Sulfate. For additional precautionary statements, read the entire label before using this product.

IF SWALLOWED: If patient is conscious and alert, give 2 to 3 glasses of water or milk to drink. If available, give one tablespoon of Syrup of Ipecac to induce vomiting. If vomiting does not occur within 20 minutes of the first dose, follow with a second and last dose of 1 teaspoon. Alternatively, induce vomiting by touching back of throat with finger. Do not make an unconscious person vomit. GET MEDICAL ATTENTION.

IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. GET MEDICAL ATTENTION.

IF ON SKIN: Immediately flush skin with plenty of water while removing contaminated clothing and shoes. Wash clothes separately before reuse.

IF INHALED: Remove to fresh air. If not breathing, give artificial respiration. Administer oxygen if necessary. GET MEDICAL ATTENTION.

#### GENERAL

Contact a physician immediately in all cases of suspected poisoning. If breathing stops, establish an airway, start artificial respiration, and provide oxygen. Make certain to remove all sources of continuing contamination. Remove clothing and wash skin and hair immediately with large amounts of water. Transport the patient to a physician or hospital immediately and SHOW A COPY OF THIS LABEL TO THE PHYSICIAN. If poisoning is suspected in animals, contact a veterinarian.

#### NOTE TO PHYSICIAN

All treatments should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred.

This product contains a methyl carbamate insecticide, which is a cholinesterase inhibitor. Overexposure to this substance may cause toxic signs and symptoms due to stimulation of the cholinerge nervous system. These effects of overexposure are spontaneously and rapidly reversible. Gastric lavage may be used if this to will have been swallowed. LaRVIN® poisoning may occur rapidly after ingestion and prompt removal of stomach contents is indicated.

Specific treatment consists of parenteral atropine sulfate. Caution should be maintained to prevent over atropinization. Mild cases may be given 1 to 2 mg intramuscularly every 10 minutes until full atropinization has been achieved and repeated thereafter whenever symptoms reappear. Severe cases should be given 2 to 4 mg intravenously every 10 minutes until fully aropinized, then intramuscularly every 30 to 60 minutes as needed to maintain the effect for at least 12 hours. Dosages for children sh(404) be appropriately reduced. Complete recovery from overexposure is to be expected within 24 hours.

Narcotics and other sedatives should not be used. Further, drugs like 2-PAM (pyridine-2-aldoxime methiodide) are NOT recommended unless organophosphate intoxication is also suggested.

To aid in confirmation of a diagnosis, urine samples should be obtained within 24 hours of exposure and immediately frozen. Analyses will be arranged by Rhône-Poulenc Ag Company.

Consultation on therapy can be obtained at all hours by calling the Rhone-Poulenc emergency number : 1-800-334-7577.

NOTE 7- O N WAL NOT HEN STITU FER PR NOTICE CO DATE.

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## PRECAUTIONARY STATEMENTS

#### WARNING

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Illness may result rapidly following overexposure to this product. May be fatal if swallowed. May be harmful if inhaled or absorbed through the skin. May be irritating to eyes and may cause mild skin sensitization. Do not take internally. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Keep away from domestic animals.

Wear long-sleeved clothing, full-length trousers, head covering and protective gloves while using this product. Remove contaminated clothing daily and wash before reuse. Wash exposed skin thoroughly with soap and water after use and before eating or using tobacco. Discontinue use if allergic reaction occurs. Do not eat or use tobacco while using this product.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Salivation, Muscle tremors, Nausea, Watery eyes, Difficult breathing, Vomiting, Pinpoint eye pupils, Excessive sweating, Diarrhea, Blurred vision, Abdominal cramps, Weakness, Headache.

IN SEVERE CASES, CONVULSIONS, UNCONSCIOUSNESS, AND RESPIRATORY FAILURE MAY NOT OCCUR. ANTIDOTE STATEMENT: ATROPINE SULFATE IS HIGHLY EFFECTIVE AS AN ANTIDOTE. See NOTE TO PHYSICIAN below.

#### ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds, invertebrates and other wildlife. **Exclorrestrial uses, do not apply directly to water**, or to areas where faurlace.water is present or to intertidal areas below the mean high water marks. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply when weather conditions favor drift from area treated. This product is toxic to bees exposed to direct treatment. Do not apply when bees are actively visiting the treatment area.

#### GENERAL INFORMATION

LARVIN® brand 3.2 Thiodicarb Insecticide/Ovicide is an aqueous flowable formulation that readily disperses in water for spraying by ground or sir equipment. Directions on this label are based on tests and field experience relating to effectiveness, impact on environmen: and residues remaining in food and feed. READ THE ENTIRE LABEL AND OBSERVE ALL LABEL DIRECTIONS AND PRECAUTIONS BEFORE USE.

## DIRECTIONS FOR USE

# IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING. READ ENTIRE LABEL BEFORE USING THIS PRODUCT.

Do not use this product except as directed on this label or on other Rhône-Poulenc Ag Company supplemental labeling for this product Applications at higher rates or at more frequent intervals than is stated on the label may result in illegal residues in crops, meat and milk.

#### **GENERAL WORKER PROTECTION STATEMENTS**

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vauated by unprotected persons. Do not enter treated areas without protective clothing until sprays have dried.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Advise workers to stay out of fields during application and until sprays have dried. Regular long-sleeved work clothing should be worn when working in treated fields. See PRECAUTIONARY STATEMENT, STATEMENT OF PRACTICAL TREATMENT, and NOTE TO PHYSICIAN for information on accidental exposures. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: appropriate signal word (WARNING), area treated with LARVIN®, date of application, appropriate protective clothing, appropriate reentry interval, if applicable.

## STORAGE AND DISPOSAL

#### STORAGE:

Do not store in or around the home. Store unused product in a cool, ventilated, dry, locked area. Do not allow prolonged storage in areas where temperatures frequently exceed 115°F (46°C). NEVER TRANSFER THIS PRODUCT TO ANOTHER CONTAINER FOR STORAGE.

If container is damaged, before clean-up, put on long-sleeved shirt, full-length trousers, head covering and protective gleves.

#### PESTICIDE DISPOSAL:

Do not contaminate water, food or feed by storage or disposal. Contamination with this product will render water, food or feed unfit for human or animal consumption. Wastes resulting from the use of this product may the disposed of on site or at an approved waster disposal facility.

#### CONTAINER DISPOSAL:

NEVER REUSE EMPTY CONTAINERS. 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 container is burned, stay out of smoke.

ACCIDENTS: In case of a major spill of LARVIN® brand 3.2 Thiodicarb Insecticide/Ovicide

TELEPHONE (24 HOURS A DAY) IN THE U.S.A. 1-800-334-7577.

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In case of minor spills or leaks follow all precautions indicated above and cleanup immediately. Soak up with sand, earth or other suitable material and dispose of wastes and broken or empty containers in a landfill approved for pesticide use.

## GENERAL DIRECTIONS

SPRAY PREPARATION: TO ASSURE A UNIFORM PRODUCT, AGITATE OR SHAKE ALL CONTAINERS OF THIS PRODUCT PRIOR TO USE. Elemove oil, rust, scale, pesticide residues and other foreign matter from sprayer and strainer. Flush with clean water. Use 50 mesh screens or equivalent slotted strainers in spray system. To prepare for spraying, fill tank to approximately 1/2 the needed volume of water. Add the required amount of this insecticide and mix thoroughly by mechanical or hydraulic agitation. Finish filling tank with water to desired volume and thoroughly mix. Do not store spray mixture for prolonged periods. If tank mixes are to be used, LARVIN<sup>®</sup> brand 3.2 Thiodicarb Insecticide/Ovicide must be fully dispersed in water first, followed by the addition of the intended tankmix material.

**COMPATIBILITY:** Thiodicarb Insecticide when diluted with an equal volume of water, is physically compatible with a wide range of commonly used spray products, but the full range of compatibilities under local conditions is not known. Therefore, it is essential that before using LARVIN® brand 3.2 Thiodica:b Insecticide/Ovicide in any tank mixture the compatibility of the mixture be established. Add a small amount of this product to an equal volume of water in a small container and then add the other pesticide or spray product and mix thoroughly.

DO NOT USE MIXTURES THAT CURDLE, PRECIPITATE, OR GREASE. THIS PRODUCT IS NOT COMPATIBLE WITH NON-EMULSIFIED VEGETABLE OR CROP OIL DILUENTS. FOR BEST RESULTS, SPRAY MIXTURES SHOULD BE USED IMMEDIATELY AFTER MIXING WITH ADEQUATE AGITATION.

NOTE Thiodicarb Insecticide is hydrolytically sensitive to degradation of active ingredient by strong acids, strong bases, and certain heavy metal oxides and saits of certain fungicides. Degradation can cause reduced effectiveness, plant phytotoxicity and increased handling hazards. DO NOT USE THIS PRODUCT IN SPRAY MIXTURES WITH THE ABOVE TYPE OF PRODUCTS INCLUDING MIXTURES WITH Maneb, Mancozeb (except Manzate 200 and Dithane M-45 wettable powders where mixtures are used immediately after mixing), Copper Count N-8, and Bordeaux mixture. DO NOT ADD LARVIN®TO WATER WITH pH VALUES BELOW 3.0 OR ABOVE 8.5. If necessary, water should be buffered within this range before adding LARVIN®.

## DIRECTIONS FOR AERIAL OR GROUND SPRAY APPLICATION

**APPLICATION TIMING:** Begin application when insect populations reach recognized economic threshold levels. Consult the Cooperative Extension Service, Professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area.

**APPLICATION INSTRUCTIONS:** Apply a minimum finished spray volume of 2 gallons per acre by air or 5 gallons per acre by ground unless otherwise directed under crop specific directions. Under extreme pest populations and dense foliage, use a minimum spray volume of 5 gallons per acre by air and a minimum spray volume of 10 gallons per acre by ground. For best results, it is important to obtain thorough and uniform spray coverage of the plant. Repeat application as needed to maintain control. Use higher dosage rates for heavy infestations, large larvae, or dense foliage. The specific length of residual control depends on environmental factors, plant growth, dosage rate, and degree of insect infestation. Although LARVIN® has some contact activity, larvae not feeding on treated foliage will not be controlled. When banding, determine the amount of chemical to use per acre by dividing the band width by the row width and multiplying by the appropriate broadcast rate.

To clean the sprayer after use, drain and flush with water. Use rinsings on crop according to label instructions or dispose of in an approved manner (See STORAGE AND DISPOSAL).

## DIRECTIONS FOR USE THROUGH SPRINKLER IRRIGATION SYSTEMS

Apply this product only through sprinkler irrigation systems including center pivot and solid set. Do not apply this product through any other type of irrigation system.

SPRAY PREPARATION: Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

APPLICATION INSTRUCTIONS: First propare a suspension of LARVIN® brand 3.2 Thiodicarb Insecticide/Ovicide in a mix tank. Fill tank with 1/2 to 3/4 the desired amount of water. Start mechanical or hydraulic agitation. Add the required amount of LARVIN® 3.2, and then the remaining volume of water. (Suspension concentrations using the appropriate desage per acre recommended on this label of LARVIN® 3.2 per 1 to 4 gallons of water are recommended). Then set sprinkler to deliver 0.1 to 0.3 inch of water per acra. Start sprinkler and uniformly inject the suspension of LARVIN® 3.2 into the irrigation water line so as to deliver the desired rate per acre. The suspension of LARVIN® 3.2 should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing. It you should have any other questions about calibration, you should contact State Extension Sofvice specialists, equipment manufacturers or other experts.

NOTE: When treatment with LARVIN® brand 3.2 Thiodicarb Insecticide/Ovicide has been completed, further field in igation over the treated area should be avoided for 24 to 48 hours to prevent washing the chemical off the crop.

#### GENERAL PRECAUTIONS FOR APPLICATIONS THROUGH SPRINKLER IRRIGATION SYSTEMS

Maintain continuous agitation in mix tank during mixing and application to assure a uniform suspension. Greater aboutably in calibration and distribution will be achieved by injecting a larger volume of a more dijute solution per unit time. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally cheed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shutdown. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the viater pump motor wherf the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with



pesticides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment.

Do not apply when wind speed favors drift, when system connection or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product must be dismantled and drained.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from non-uniform distribution of treated water.

Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation shall shut the system down and make necessary adjustments should the need arise.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label-prescribed safety devices for public water supplies are in place.

#### **RECOMMENDED USES FOR BROCCOLI, CABBAGE AND CAULIFLOWER**

SPRAY VOLUME FOR BROCCOLI, CABBAGE AND CAULIFLOWER: Apply in a minimum finished spray volume of 5 gallons per acre by air or 20 gallons per acre by ground.

	· · ·	DOSAGE	PER ACRE		
SITE	PEST	Founds Active	Fluid Ounces	SPEC!FIC DIRECTIONS	USE RESTRICTIONS
COLE CROPS (BROCCOLI, CABBAGE, CAULIFLOWER)	Alfalfa Looper Beet Armyworm Cabbage Flea Beetle Imported Cabbageworm	Q.4 to 0.8	16.0 to 32.0	Spray as needed. As insect populations increase and/or new plant growth is rapid, the spray interval should be shorter. Use higher dosage rates for heavier infestations or large larvae. Use lower rates for light to moderate infestations.	pounds of active ingredient (240 fluid ounces of LARVIN <sup>®</sup> brand 3.2) per acre per
	Cabuage looper Diamondback moth	0.6 to 1.0	24.0 to 40.0	NOTE: Regional differences have been noted in the susceptibility of certain strains of diamondback moth to thiodicarb. If local experience indicates inadequate control, use an alternate pesticide.	

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#### RECOMMENDED USES FOR COTTON

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#### INTEGRATED PEST MANAGEMENT (IPM) USE OF THIS PRODUCT

LARVIN® Thiodicarb Insecticide/Ovicide has both contact and residual ovicidal activity which can be effectively utilized in IPM programs (See ovicide section). LARVIN® used as an ovicide or a larvicide has been shown to leave substantial populations of beneficial insects and spiders after use. The lower rates allow for maximum beneficial survival and faster rebound of beneficial populations. Larvicidal and ovicidal control coupled with retention of beneficial insects and spiders can offer significant benefits to those producers utilizing integrated pest control programs.

SPRAY VOLUME FOR COTTON: LARVIN<sup>®</sup> brand 3.2 Thiodicarb Insecticide/Ovicide should be applied in a minimum finished spray volume of 2 gallons per acre by aircraft and 5 gallons per acre by ground equipment. Under extreme pest populations or dense foliage, use a minimum spray volume of 5 gallons per acre by air and a minimum spray volume of 10 gallons per acre by ground.

		DOSAGE	PER ACRE		
SITE	PEST	Pounds Active	Fluid Ounces	SPECIFIC DIRECTIONS	USE RESTRICTIONS
COTTON	Ovicide: Cotton bollworm Tobacco budworm	0.125 to 0.25 -	5.0 to 10.0	Apply on a 3 to 5 day schedule when moth flights begin or sufficient eggs are present. Thorough spray coverage is necessary as eggs must be contacted by LARVIN® for activity to occur. Eggs laid on untreated foliage or not contacted by LARVIN® sprays will not be controlled. If significant number of larvae survive, use higher recommended LARVIN® rates or 0.125 to 0.25 lbs ai/A of LARVIN® in tank mixture combinations with organophosphates, pyrethroids or <i>Bacillus thuringiensis</i> such as DiPel® ES registered for use on cotton at their label recommended rates. Observe all restrictions and precautions which appear on the labels of all products to be tank mixed with LARVIN®.	Do not allow livestock to graze fields. Do not apply less than 28 days before harvest. In Arizona, apply before bolls begin to open and do not exceed 1.8 pounds per acre per season.
	Larvicide: Cotton bollworm Tobacco budworm	0.6 to 0.9	24.0 to 36.0	In this rate range, LARVIN <sup>®</sup> is a direct contact and residual contact ovicide, as well as an effective larvicide. Although LARVIN <sup>®</sup> has some contact activity, larvae must feed on treated foliage to be controlled. Use the higher rate when insect larvae populations are heavier or when infestations are predominantly large larvae (>1/4 inch in size).	

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	RECOMMENDED	USES	FOR	COTTON	(CONTINUED)
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•	RECO		USES FO	OR COTTON (CONTINUED)	104
SITE	PEST	DOSAGE Pounds Active	PER ACRE Fluid Ounces	SPECIFIC DIRECTIONS	USE RESTRICTIONS
COTTON (cont)	Larvicide (Cont.): Armyworms (such as: Beet, Fall, etc.) Cabbage looper Cotton leaf perforator Cotton leafworm Soybean looper Fleahopper (Suppression) Pink bollworm (Suppression) Plant bugs (Suppression)	0.6 to 0.9	24.0 to 36.0	As pest pressure increases, reduce intervals between applications and/or increase dosage rate as indicated in specific directions below. A rate of 24 fluid ounces (0.60 Ibs.active) should be used when: For low to moderate insect populations and when maximum survival of beneficial insects and spiders is desired. Rates of 30 to 36 fluid ounces (0.75 to 0.90 lbs. active) should be used when: Insect populations are heavy or infestation is predominantly large larvae. Although LARVIN® has some contact activity, larvae must feed on treated foliage to be controlled. Applications for suppression of Pink bollworm should be timed for the presence of adult moths.	graze fields. Do n apply less than 28 day before harvest. In Arizona, apply befo bolls begin to open an do not exceed 1 pounds per acre p season.
	Boll weevil (Suppression)	0.6 to 0.9	24.0 to 36.0	Light Boll Weevil Populations: When spraying LARVIN® on a 5 to 7 day worm control schedule, control of boll weevil will usually be adequate to maintain boll weevil populations below established economic thresholds. Moderate to Heavy Boll Weevil Populations: When spraying LARVIN® on a worm control schedule, application of a registered boll weevil control product and/or tank mix of LARVIN® plus a registered boll weevil product should be used. A 3 to 5 day interval between sprays may be required to maintain boll weevil control under heavy infestations.	
	Cutworms	0.6	24.0	See "SPECIAL DIRECTIONS ON "CUTWORMS"	

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#### RECOMMENDED USES FOR LEAFY VEGETABLES

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SPRAY VOLUME FOR LEAFY VEGETABLES: Apply in a minimum finished spray volume of 5 gallons per acre by air or 20 gallons per acre by ground.

		DOSAGE	PER ACRE		
SITE	PEST	Pounds Active	Fiuid Ounces	SPECIFIC DIRECTIONS	USE RESTRICTIONS
LEAFY VEGETABLES (Amaranth, arrugula, celery, celtuce, chervil, corn salad, chrysanthemum (edible leaved, garland), cress	Alfalfa looper Armyworms (Such as: Beet, Fall, Southern) <i>Heliothis zea</i> (Bollworm, Corn earworm, Tomato fruitworm)		16.0 to 30.0	Spray as needed. Use the higher dosage rates for heavier infestations of larger larvae. Use the lower rates for light to moderate infestations.	Do not exceed 1.5 pounds of active ingredient (60 fluid ounces of LARVIN® brand 3.2) per acre per season. Do not apply less than 14 days before harvest.
(garden, upland), dandelion, dock, endive, Florence fennel, lettuce (head, leaf), orach, parsley, purslane (garden, winter), rhubarb, spinach(leaf, fine, new zealand), Swiss chard	Cabbage looper	0.6 to 0.75	24.0 to 30.0		

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#### RECOMMENDED USES FOR SOYBEANS (STANDARD AND LOW SPRAY VOLUMES)

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**STANDARD SPRAY VOLUME FOR SOYBEANS:** Apply in a minimum finished spray volume of 2 gallons per acre by air or 5 gallons per acre by ground. Under extreme pest populations or dense foliage, use a minimum spray volume of 5 gallons per acre by air and a minimum of 10 gallons per acre by ground.

LOW SPRAY VOLUME FOR SOYBEANS. Apply in a minimum finished spray volume of 1 gallon per acre by aircraft. Only use the low volume aerial application (i. e., minimum of 1 GPA) where that spray volume will provide adequate coverage of the crop.

		DOSAGE	PER ACRE	··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	
SITE	PEST	Pounds Active	Fluid Ounces	SPECIFIC DIRECTIONS	USE RESTRICTIONS
SOYBEAN (Standard Spray Volume Applications)	Podworms (Bollworm, Corn earworm, Tobacco budworm) Armyworms.(Such as: Beet, Fall, Southern, Yellow-striped, etc.) Green cloverworm Velvetbean caterpillar Woollybear caterpillar	0.25 to 0.4	10.0 to 16.0	Use the lower rates for low to moderate populations and maximum protection of beneficials.	Co not feed forage, hay or straw to livestock. Do not apply less than 28 days before harvest.
	Soybean looper Cabbage looper Mexican bean beetle Bean leaf beetle Stinkbugs (Suppression) Three-cornered alfalfa hopper (Suppression)	0.45 to 0.75	18.0 to 30.0		
	Cutworms	See "SPECI/	AL DIRECTION	NS ON CUTWORMS"	
SOYBEAN (Low Spray Volume Applications)	Podworms (Bollworm, Corn earworm, Tobacco budworm) Green Cloverworm Velvetbean caterpillar Armyworms (such as Fall, Beet, Southern, etc.) Woollybear caterpillar	0.25 to 0.40	10.0 to 16.0	For best results, use the lower rates for low to moderate populations and maximum protection of beneficials. When applying at 1 gallon of spray volume per acre by air, use 1 quart of emulsified crop or vegetable oil (e.g., emulsified corn, soybean or cottonseed oil). Water alone may be used as a diluent for spray volumes of 2 gallons or higher per acre. TANK MIX DIRECTIONS FOR EMULSIFIED CROP OR VEJETABLE OILS: Fill spray tank with approxi-mately 3/4 of the water required for the spray mixture. Add the required amount of LARVIN® 3.2 to the spray tank with the agitator running. Then add the desired amount, of emulsified crop or vegetable oil. Continue agita-tion while adding the remainder of water.	FOR USE ONLY IN: Maryland, Virginia, North Carolina, Delaware. South Carolina, Georgia, Alabama, Mississippi, Louisiana, Arkansas and Missouri. Do not feed forage, hay, or straw to livestock. Do not apply less than 28 days before harvest.

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#### **RECOMMENDED USES FOR SWEET CORN**

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SPRAY VOLUMES FOR SWEET CORN: Please observe the spray volumes recommended for whorl feeders, silks and ears and foliage feeders under specific directions. For aerial applications, only water may be used as a diluent and total spray volume must be at least 2 gallons per acre.

		DOSAGE I	PER ACRE		
SITE	PEST	Pounds Active	Fluid Ounces	SPECIFIC DIRECTIONS	USE RESTRICTIONS
SWEET CORN (Florida Fresh Market Only)	Corn earworm European corn borer Armyworms (Such as Fall, Beet, etc). Western bean cutworm	0.5 to 0.75	20 to 30	<ul> <li>Whorl Feeders: Spray as needed. As insect populations increase and/or when new plant growth is rapid, the spray interval should be shorter. For best results, use spray volumes of 15 gations or more per acre applied by ground equipment using solid or hollow cone nozzles directed into the plant whorl.</li> <li>Insects Attacking Silks And Ears: Apply at 1 to 7 day intervals starting when silks first appear and continuing urtil harvest, if necessary. As insect populations increase and/or silk growth is rapid, the spray interval should be shorter. Use the higher dosage rate and apply at 1 to 2 day intervals following periods of heavy moth flights. Follow local recommendations for proper timing.</li> <li>Foliage Feeders: Use at least 2 gallons finished spray volume per acre by air or 10 gallons per acre by ground. Spray as needed.</li> </ul>	not exceed 7.5 pounds of active ingredient (300 fluid ounces of this product) per acre per season. Do not allow livestock to graze treated field. Do not feed treated corn silage (green plant) or fodder to livestock. Ears may be harvested on day of last applica- tion.
	Cutworms	See "SPECI	AL DIRECTIO	NS ON "CUTWORMS"	

#### **RECOMMENDED USES FOR CUTWORMS**

#### SPECIAL DIRECTIONS ON CUTWORMS

SPRAY VOLUME FOR CUTWORMS: Apply in a minimum finished spray volume of 3 gallons per acre by air or 15 gallons per acre by ground.

		DOSAGE	PER ACRE		
SITE	PEST	Pounds Active	Fluid Ounces	SPECIFIC DIRECTIONS	USE RESTRICTIONS
COTTON, SOYBEANS, SWEET CORN (Florida, Fresh Market Only)	Cutworms	0.5 to 0.75	20.0 to 30.0	Postemergence Rescue Treat- ments: For best results, apply as a broadcast spray when cutworms are actively feeding. If cutworms are feeding below the ground, control will be more difficult. Light cultivation with a rotary hoe before spraying may enhance control. If banding, use a minimum width of 10 inches over the row. When banding, determine the amount of chemical to use per acre, by dividing the band width by the row width and multiplying by the appropriate broadcast rate.	crop for use restrictions.

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# For dilute-spray ground applications to ornamentals (such as: Trees, Shrubs, Herbaceous bedding plants, Herbaceous greenhouse plants and non-bearing fruits):

Apply the specified dosage per 100 gallons of water. For concentrate-spray ground applications, apply the specified dosage per acre in sufficient spray volume to provide thorough coverage. For aerial application to ornamental plants, shrubs and trees (except forests), apply the specified dosage per acre in a minumum total spray volume of 5 gallons to provide thorough coverage.

#### BEFORE MAKING TREATMENTS REFER TO "PLANT TOLERANCE INFORMATION" LISTED ON THIS LABEL.

		DOSAGE O Brand 3.2 Insec	F LARVIN® THIODICARB TICIDE		
SITE	PEST	FLUID OUNCES PER 100 GALS SPRAY OR PER ACRE	PINTS PER 100 GALS Spray or Per Acre	SPECIFIC DIRECTIONS	USE RESTRICTIONS
ORNAMENTALS such as: Trees (except forests), Shrubs, Herbaceous bedding plants, Herbaceous greenhouse plants, Non-bearing fruit trees (Citrus: Grapefruit, lemons, limes, oranges, tangelos, tangerines, citrus citron, kumquats and hybrids; Nut Crops: almonds, filberts, pecans, walnuts; Pome Fruits: apples, pears, loquats, crabapples, oriental pears, quince; Stone Fruits: peaches, apricots, nectarines, olums, prunes and cherries)		20 to 30	1.25 to 1.9	See "PlantTolerance Information" and "Appli- cation" sections of this label. Apply when pests appear and thereafter as needed not to exceed 6 applications per site part season.	Do not use on fruit trees or vines that will bear edible fruit within one year.



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#### RECOMMENDED USES FOR NON-CROP AREAS

		DOSAGE PER ACRE		ACRE		
SITE	PEST	Pounds Active	Fluid Ounces	Pints	SPECIFIC DIRECTIONS	USE RESTRICTIONS
NON-CROP AREAS (Wastelands, Roadsides, Rights-of-Way, Grassways, Shelter belts, and Fencerows)	Armyworms Bagworm Budworms Cankerworms (such as: spring, fall) Cutworm Gypsy mt h Heliothis spp. (such as: corn earworm) Leafrollers (such as: omnivorous, fruittree) Loopers Oakworms Sawflies Skippers Tent caterpillars Webworms (such as: fall, mimosa)	0.40 to 0.76	16.0 10 30.0	1.0 to 1.9	Treat non-crop areas where pests congregate to reduce infestation levels or to prevent movement into crop- lands. Apply when pests appear and every two weeks thereafter as needed, not to exceed 6 applications per site per season.	graze treated areas. Do not use treated plants as

#### ORNAMENTAL PLANT TOLERANCE INFORMATION

LARVIN® brand 3.2 Thiodicarb Insecticide has been tested on many species of ornamental plants. Results indicate plants listed below are tois ant to the higher rates of this product. Horticultural varieties of many plants differ significantly in sensitivity to pesticides. Before making applications to plants not listed, it is recommended that a small portion of the crop be treated to determine its tolerance to this product. Plants stressed from heat, moisture or other factors are usually more sensitive to sprays. Phytotoxic reactions can be minimized by spraying when stress is minimal such as early mornings or late evenings.

#### ORNAMENTAL PLANTS TOLERANT TO THIODICARB INSECTICIDE

TREES	SHRUBS	HERBACEOUS	HERBACEOUS BEDDING PLANTS	
Apple, (Crab) Birch, (Weeping, White) Honeylocust, (Sunburst) Maple, (Sugar) Pine, (Scotch) Spruce, (Norway)	Arborvitae Aucuba Azalea Boxwood Camellia Elaeagnus Euonymus Fatsia, (Japanese) Gardenia Hawthorn Holly, (Japanese) Holly, (Yaupon) Juniper Lantana Ligustrum Lilac Mahonia Osmanthus Pittosporum Pyracantha Rhododendron Rose, (Hybrid Tea) Yew	Acalypha hispida Acalypha wilkesiana Aechmea lueddemanniana Alternanthera versicoior Aluminum Plant Begonia semperflorens Cactus Ceropegia woodii Chamaedorea elegans Chlorophytum comosum Dieffenbachia Dracaena sanderana Echeveria Fern Ficus diversifolia Gloxinia Gynura sarmentosa Hechtia tellandsioides Hoya Iboza riparia Ivy, (Swedish)	Ixora Jade Plant Kalanchoe daigremontiana Maranta leuconeura erythroneura Nephrolepis exaltata Peperomia magnoliifolia Peperomia obtusifolia Philodendron oxycardium Piggyback Plant Pilea grandis Poinsettia Pseuderanthemum Rhoeo spathacea Sansevieria trifasciata Scindapsus aureus Senecio Spathyiphyllum wallisii Syngonium podophyllum Torenia Zebrina pendula .Zygocactus truncata	Calendula Craina Chrysanthemum Coleus Geranium Hosta Impatiens Lantana Periwinkle Petunia Salvia Snaporagon Verbena Violet

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	FIELD USE CONVERSION TABLE						
	A	ACRES TREATED PER VOLUME					
DOSAGE PER ACRE	OF LARVIN <sup>®</sup> brand 3.2						
unds Active	Fluid Ounces	1 galion	2.5 galions	5 gations			
0.125	5.0	25.6	64.0	128.0			
0.25	10.0	12.8	32.0	64.0			
0.33	13.2	9.7	24.2	48.5			
0.40	16.0	8.0	20.0	40.0			
0.45	18.0	7.1	17.7	35.5			
0.50	20.0	6.4	16.0	32.0			
0.55	22.0	5.9	14.5	29.0			
0.60	24.0	5.3	13.2	26.5			
0.65	26.0	4.9	12.3	24.6			
0.70	28.0	4.6	11.4	22.8			
0.75	30.0	4.2	10.5	21.4			
0.80	32.0	4.0	10.0	20.0			
0.90	36.0	3.6	j 8.9	17.8			

FIELD USE CONVERSION TABLE

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1 U.S. Gallon Equals 128 Fluid Ounces

## LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions; and (c) that the directions, warnings and other statements on this label are based upon responsible experts' evaluation of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants, and of residues on food crops, and upon reports of field experiences. Tests have not been made on all valieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE, ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

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LARVIN® brand 3.2 Thiodicarb Insecticide/Ovicide Aqueous Flowable (MASTER) Notification 6/25/93.