70051-5 561/19

8570-1.pdf at www.epa.gov

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Page 1 of 2

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		Application for	Pesticide - Sect	tion I		<u> </u>	
1. Company/Product Nu 70051-5	mbər		2. EPA Product Man J.L. Andersen	LAYNE	:	oposed Classification	
4. Company/Product (Na Margosan-O	amə)		РМ# 03				
5. Name and Address of Thermo Trilogy Co 9145 Guilford Roa Columbia, MD 210	d, Suite 175	de)	(b)(i), my product i to:	s similar or ider	ntical in co	FIFRA Section 3(c)(3) nposition and labeling	
Check il	' this is a new address		Product Name _				
-		Sec	tion - II				
Amendment - Ex	plain below.	······				DTIFICATION	
Resubmission in response to Agency letter dated			Agency letter deted 		MAY	2 1 1999	
1. Material This Product	<u> </u>		tion - III	2 7	f Containe		
Child-Resistant Packagu Y o s No	Yes Yes		Soluble Packaging Yes No		f Container Metai Plastic Glass		
* Certification mus be submitted	f "Yes" Unit Packaging wgt.	No.per If "Yes container Packa	s" No, per ge wgt container		Paper Other (S	pecify)	
3. Location of Net Conte		4. Size(s) Retail Conta	ner	5. Location of La	bel Directio	n s	
6. Manner in Which Lab	el is Affixed to Product	Uithograph Paper gluod Stenciled	Other				
		Sect	ion - IV				
1. Contact Point <i>(Comp</i>	lete items directly below i	for identification of indiv	idual to be contacted, i	if necessary, to p	rocess this	application.)	
^{Namo} Christine A. Dively		Title Director	of Regulatory Atfairs		Telephone (301) 483-	No. (Include # rr# Code) 3806	
•	tatements I have made on at any knowlinglly false or able law.					6. Data Application / Received (Stamped) •	
2. Signature	A. Dively	ly_ 3. Title Director	of Regulatory Atlairs) , , , , , , , , , , ,	• • • • • • • • • • • • • • • • • • •	
4. Typed Name		5. Date			1	1 11	

http://www.epa.gov/opprd001/forms/8570-1.pdf

MARGOSAN-O®

BOTANICAL AGRICULTURAL INSECTICIDE

An insecticide for use on food crops in and around agricultural areas and greenhouses.

Kills/repels a variety of insect pests including whiteflies, leafminers, caterpillars, aphids, and diamondback moths.

Broad Spectrum Insect Growth Regulator Insecticide

ACTIVE INGREDIENT:	
Azadirachtin*	0.25%
INERT INGREDIENTS	
	TOTAL 100.00%

*Contains 0.017 pounds of azadirachtin per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION

Manufactured By:

Thermo Trilogy Corp. 9145 Guilford Road Suite 175 Columbia, MD 21046

EPA Reg. No. 70051-5 EPA Est. NO. 44616-MO-01 Net Contents: 1 gal.

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See Back Panel for Additional Precautionary Statements

NOTIFICATION

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3912

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Avoid contact with skin, eyes, or clothing. Avoid contamination of feed and foodstuffs. Avoid breathing spray mist. In case of eye contact, flush eyes with plenty of water. If on skin, wash with soap and water. If irritation persists, get medical attention.

Personal Protective Equipment:

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

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinylchloride (PVC) or Viton.
- 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.

User Safety Recommendations:

Users should

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

Environmental Hazards:

This product may be hazardous to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean-high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Physical and Chemical Hazards:

Flammable. Do not use or store near heat or open flame.

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STORAGE AND DISPOSAL

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

Pesticide Storage: Keep in original container. Store in a cool, dry place, away from direct sunlight, feed or foodstuffs. Keep container tightly sealed when not in use. Do not store below 60° F (15°C) or above 95°F (35°C).

Pesticide Disposal: Rinsewater and unused diluted pesticide may be disposed of on-site or in an approved waste disposal facility. Do not reuse empty container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

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

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 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).cf 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
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinylchloride (PVC) or Viton.
- Shoes plus socks.

3

112

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep unprotected persons out of treated areas until spays have dried.

General

- Kills larval stages of insects only
- Broad Spectrum Multi-Purpose Botanical Insecticide Concentrate
- Shake well before using.
- Spraying directly onto the pest and a longer duration of leaf wetting increase effectiveness. Apply in early to mid-morning or late afternoon. This is particularly important with whitefly adults which are sedentary on the undersides of leaves at these times.
- Margosan-O® in diluted solution should be maintained at pH between 3-8. Use outside of this pH range may cause product degradation. Spray solutions should be used within several hours of preparation for maximum effectiveness. Do not store diluted solution for later use.
- Do not add adjuvants (spreaders, surfactants, etc.) to Margosan-O® as it already contains its own surfactant.
- Do not apply to wilted or otherwise stressed plants, or to newly transplanted material prior to root establishment. Do not apply to known spray-sensitive plants without testing.
- Margosan-O® has been found to be compatible when used in conjunction with most beneficial insects. It is recommended that a small trial be conducted to assure compatibility before using on a large scale.

Tank Mixing

Margosan-O® has been found to be compatible with most commonly used fungicides, insecticides, and fertilizers. Physical compatibility should first be checked by using the correct proportion of products in a small jar test. Growers should then test tank-mix combinations for phytotoxicity on a sample of plants prior to use. This is also recommended with combinations used before as environmental conditions can alter the interaction between compounds. Due to the wide variation in climatic conditions, cultural practices, and other factors, the user assumes full responsibility for any crop damage or other liability resulting from the use of Margosan-O® in a tank mix combination. Do not mix Margosan-O® with oxidizing agents such as bleach, or strong acids and bases as they will destabilize the product.

6712

Directions for Food Crop Application

General Directions

- Use care when applying near streams, ponds, lakes, or other bodies of water.
- Margosan-O® should not be applied when weather conditions favor drift or when the likelihood of runoff is high.

Greenhouse

- For use to control whiteflies, thrips, mealybugs, leafminers, loopers, caterpillars, beet armyworms, and aphids in and around greenhouses and commercial nurseries.
- Margosan-O® may be used on all listed fruits, vegetables, vegetable transplants, and herbs both inside and outside of the greenhouse.
- For high volume application, dilute Margosan-O® to a concentration of 64 to 128 ounces (4 to 8 pints) per 100 gallons of water (4 to 8 teaspoons of Margosan-O® per gallon of water). Mix thoroughly. Apply 25-40 psi with hand sprayer or 100-200-psi with power sprayer as a fine spray to both leaf surfaces to runoff. Usually 1-2 gallons of spray solution/1,000 sq. feet. Excessive application is unnecessary and should be avoided.
- For low volume application, apply at a rate of 0.5 gallon of Margosan-O® per 1000 square feet.
- Sprays may be applied on a preventative 7-day schedule or at the first sign of insect presence. This schedule is effective under low insect pressure. Under high insect pressure, apply every 3-4 days.
- For drench application in greenhouse planting, use 2.5 pints per 100 gallons and apply at the rate of 1 quart of diluted solution per square foot of growing media surface. Repeat at 14-day intervals during the growing season.



112

Field Crops

Specific Crop Directions

Application Rate: Apply 0.5-2.0 gallons of Margosan-O® per acre using conventional application equipment in a minimum of 30 gallons of water. The low rate should be used as a preventative when pest pressure is low, or if used in conjunction with adulticide products. Otherwise, the high rate should be used. The maximum application rate is 20 grams of active ingredient or less per acre according to the tolerance exemption (40 CFR 180.1119).

Pest	Rate of Margosan-O Per Acre* (gallons)	Application Frequency	Remarks
Sweetpotato Whitefly -Low Pressure	0.5-1.0 gallons	4 – 10 days	Foliar application to larvae and nymphs
-High Pressure	1.0-2.0 gallons	3 – 7 days	
Aphids	0.5-1.0 gallons	7 – 10 days	Suppression and adult feeding deterrence
Leafminer	0.5-1.0 gallons	14 – 21 days	Foliar application to larvae and nymphs
Armyworms	0.5-1.5 gallons	7 – 10 days	Foliar application to larvae
Others (including): -Bores -Leafhoppers	1.0-2.0 gallons	7 10 days	Foliar application to larvae and nymphs
-Leafrollers -Loopers			

Application Rate for Whiteflies, Aphids, Leafminers, Armyworms & Other Pests

*Apply in sufficient water per acre to assure adequate coverage

Mode of Action

This product controls targeted insect larvae when ingested or come in contact with it, by interfering with the insects ability to molt. It is effective on all larval stages and pupae. It also reduces damage by repelling and deterring feeding of all stages of insects.

112

Crops including but not limited to:

CITRUS, POME, STONE, AND TROPICAL				
FRUITS				
Apples	Apricots			
Avocados	Peaches			
Pears	Oriental pears			
Cherries-sweet	Cherries-sour			
Barbados cherries	Plums			
Prunes				
Crabapples	Quinces			
Grapefruits	Jujubes			
Kumquats				
Lemons				
Limes				
Mangoes				
Nectarines				
Oranges				
	CUCURBITS			
Balsam pears	Honeydew melons			
Mango				
Cantaloupes	Chinese waxgourds			
Pumpkins				
Cucumbers	Squashes			
Gherkins	Watermelons (incl.			
Gourds	hybrids)			
BULB, COLE A	ND LEAFY VEGETABLES			
Arugula				
Asparagus	Cress			
Broccoli	Endive			
Brussels sprouts	Fennel			
Cabbage (head &	Kale			
Leaf)	Kohlrabi			
Cauliflower	Parsley			
Celery	Rhubarb			
Lettuce (head & leaf)	Cruine altrad			
Mustard greens	Swiss chard			
(Gai Ion) Chinese cabhage	Turnip tops Garlic			
Chinese cabbage (Bok choy, Napa)	Leek			
(Box choy, Napa) Spinach	Onions			
Chinese spinach	Shallots			
(Amaranth,	Collards			
	COMMUS			
Tampala)				

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97

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LEGUME AND FRUITING VEGETABLES

Beans

Chick peas Eggplants Ground cherries Lentils Peas Peanuts Peppers Soybeans Tomatoes

ROOT AND TUBER VEGETABLES

Artichokes Beets Carrots Cassava Ginger Horseradish Parsnips Potatoes Radishes Rutabaga Sweet potatoes Tumeric Turnips Yams Yam beans

SMALL FRUITS AND BERRIES

Blackberries Blueberries Boysenberries Cranberries Currents Dewberries Elderberries Gooseberries Grapes Huckleberries Loganberries Raspberries (black & red) Strawberries

8

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HERR	S AND SPICES			
<u></u>				
Anise	Mint			
Balm	Marigold			
Basil	Marjoram			
Borage				
Camomile	Pennyroyal			
Caraway	Peppermint			
Catnip	Rosemary			
Chives	Rue			
Celery	Sage			
Coriander	Savory			
Cumin	Spearmint			
Curry leaf	Sweet Bay			
Dandelion	Tarragon			
Dill	Thyme			
Fennel	Wintergreen			
	NUTS			
Almonds				
Beech nuts				
Brazil nuts				
Butternuts				
Cashews				
Chestnuts				
Filberts				
Hickory nuts				
Macadamia				
Pecans				
Pistachios Walnutz				
Walnuts	Í			
MISCELLANEOUS				
Asparagus	Sweet corn			
Cotton	Rice			
Alfalfa				
Other Crops Grown for	Seed			

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Insect Pest Controlled by Margosan-O®:

Aphids, such as: Cotton Aphid Green Peach Aphid

Armyworms, such as: Beet Armyworm Fall Armyworm Southern Armyworm Yellow Striped True Armyworm

Borers, such as: Peachtwig Borer Peachtree Borer Squash Vineborer

Caterpillars & Loopers, such as: Cabbage Looper Diamond Moth Imported Cabbage Looper Navel Orangeworm Sovbean Looper Tobacco Budworm Tomato Fruitworm Grapeleaf Skeletonizer Hornworm Fall Webworm Lesser Webworm Pickleworm Rindworm Melonworm Sod Webworm Pecan Nut Casebearer Walnut Caterpillar Hickory Shuckworm

Corn Earworm Budworm Webworm Garden Webworm

Cutworms, such as: Black Cutworm Citrus Cutworm

Leafhoppers, such as: Grape Leafhopper Potato Leafhopper Variegated Leafhopper Aster Leafhopper

Leafminers, such as: Holly Leafminer Sepentine Leafminer Vegetable Leafminer

Leafrollers, such as: Oblique Banded Leafroller Omniverous Leafroller Grape Leafroller Fruitree Leafroller Blueberry Leafroller Filbert Leafroller

Moths, such as: Artichoke Plume Moth Codling Moth Gypsy Moth Diamondback Moth Grape Berry Moth

Thrips, such as: Thrips Palmi Margosan-O® Agriculture Use Sub-Label, 5/99 EPA Notification Whiteflies, such as: Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly 1)

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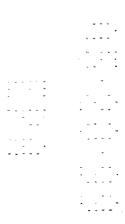
Psyllids

Spittle Bugs

Mealybugs

Beetles, Grubs & Weevils, such as: Pecan Weevils Alfalfa Weevils Chestnut Weevils Colorado Potato Beetle Black Vine Weevil Twig Girdlers Strawberry Beetle Potato Flea Beetle Bean Leaf Beetle Mexican Bean Beetle

Miscellaneous, such as: Fruitfly Grasshopper Onion Maggot Tomato Pinworm Cherry Fruitworm Grape Fruitworm Grape Leaffolder Filbert Worm Squash Bug Pecan Leaf Phylloxera Pecan Stem Phylloxera Bollworm Cotton Leafperforator



12

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CHEMIGATION

Refer to supplemental labeling entitled "Thermo Trilogy's Chemigation Bulletin" for use directions for chemigation. Do not apply this product through any irrigation system unless the supplemental labeling on chemigation is followed. For a copy of this bulletin, please call Thermo Trilogy's Customer Service.

WARRANTY

Thermo Trilogy Corp. 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.

11