72639-10

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Please read instructions on r	everse before comple	ting form.			Form Appl	roved	. OMB No.	2070-008	O. Approval expires 2-28-55
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		Applicatio	n for	Pestici	de - Secti	ion	I		<u> </u>
1. Company/Product Number 72639-10	,			2. EPA S. Rei	Product Mana lly	ger		3. Pr	oposed Classification None Restricted
4. Company/Product (Name) LT BioSyn, Inc. / Happy	Gro	·= · · · · · · · · · · · · · · · · · ·		PM#	9	1			
5. Name and Address of App LT BioSyn, Inc. c/o Pyxis Regulatory Cor 4110 136th St. NW Gig Harbor, WA 98332 Check if this		de)		(b)(i), n to: EPA F		s simi	ilar or ideni	tical in co	FIFRA Section 3(c)(3) mposition and labeling
			Se	ction - I					<u> </u>
Amendment - Explain Resubmission in respo	onse to Agency letter	dated			Final printed Agency lette "Me Too" Ap Other - Expla	pplica () sin be	ition. Iate Rev Iow.	riewea:	04/13/05 12: +26-R
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Submission of label notific 40 CFR 152.46, and no ot that it is a violation of 18 U consistent with the terms of enforcement action and pe	her changes have b J.S.C. Sec. 1001 to v of PR Notice 98-10 a	een made to ti villfully make a and 40 CFR 15	ne labe any fals 52.46, t	eling or the se statement this product	confidential s nt to EPA. I f	stater furthe	nent of forn or understar	nula of this nd that if th	s product. I understand nis notification is not
,	· · · ·		Se	ction - II	1				
1. Material This Product Will	Be Packaged In:								
Child-Resistant Packaging Yes No	Unit Packaging Yes No		Wate	or Soluble P Yes No	ackaging		2. Type of	Metal Plastic Glass	
* rufication must b bmitted	If "Yes" Unit Packaging wgt.	No. per container	If "Y Pack	es" age wgt	No. per container	•		Paper Other (S	pecify)
3. Location of Net Contents I	nformation	4. Size(s) Reta	il Cont	ainer		5. Loc	On Label	el Directio	
6. Manner in Which Label is	Affixed to Product	Lithogr Paper (Stencil	aph glued ed		Other				
<u> </u>		•		ction - I	/				
1. Contact Point Complete	tems directly below f	or identification	of ind	ividual to be	contacted, if	f nece	ssary, to pr	ocess this	application.)
Name Michael Kellogg		í	Title Agent					Telephone 253-853	No. (Include Area Code) 3-7369
I certify that the staten I acknowledge that any both under applicable lo	knowlinglly false or		all attac					- 1	6. Date Application Received (Stamped)
2. Signature Munkel	ella	_	i, Title Agent						
4. Typed Name		5	. Date						
Michael Kellogg			3/	10/25-					



HappyGroTM

A Plant Growth Regulator That Produces Positive Plant Growth and Development

[Note to reviewer - the following statement is alternate language: "A Plant Growth Regulator for Crops"]

Not For Use, Sale or Resale in California

[Note to reviewer – the California restriction is optional language and may not be included on final product labeling]

ACTIVE INGREDIENT:

 Cytokinin, as Kinetin
 0.5% w/w

 OTHER INGREDIENTS:
 99.5% w/w

 TOTAL
 100.0% w/w

KEEP OUT OF REACH OF CHILDREN CAUTION

PRECAUTIONARY STATEMENTS

ENVIRONMENTAL HAZARDS

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 OR CHEMICAL HAZARDS

This product is not compatible with strong oxidizers.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear: Long sleeved shirt and long pants and shoes plus socks. Follow the 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.

MOTERCATION

EPA Reg. No. 72639-10

Date neviewed: 09/17/05

EPA Est. No.

Reviewed By: SARTER

LT BioSyn, Inc. 3406 Pomona Blvd. Pomona, California 91768 USA

Net Contents: As marked on container

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- 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.

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 applications. 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 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.

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 Category A, such as butyl rubber ≥14 mils, or natural rubber ≥14 mils, or neoprene rubber ≥14 mils or nitrile rubber ≥14 mils
- Shoes plus socks

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 (WPS) 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.

Do not enter without appropriate protective clothing until sprays have dried.

GENERAL INFORMATION

Kinetin, the active ingredient in HappyGroTM, is a plant growth hormone occurring naturally in plants. HappyGroTM is formulated with proprietary inerts that affect treated plants and turf to increase cell division, cell differentiation and cell growth. Use of this product will result in quicker green up, higher photosynthesis, and improved plant quality.

[Note to reviewer – the following is alternate language and may be used in place of the current language under the "GENERAL INFORMATION" heading]

Kinetin (a cytokinin), the active ingredient in HappyGroTM, is a plant growth hormone occurring naturally in plants and will increase cell division, cell differentiation and cell growth. HappyGroTM enhances plant growth and development.

CHEMIGATION

Apply this product only through the following types of irrigation systems:

- 1. Sprinkler including center pivot, lateral move, side (wheel) roll, traveler, big gun, solid set or hand move irrigation systems.
- 2. Calibrated overhead watering booms

Do not apply this product through any other types of irrigation systems. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems), used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person shall shut the system down and make necessary adjustments should the need arise.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection. The pesticide injection pipeline must contain a functional, normally closed, 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 shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when 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.

Agitate the pesticide supply tank throughout the application of HappyGroTM. Except for turfgrass, apply HappyGroTM at the end of the irrigation period in a sufficient amount of water to allow proper coverage of plant or crop. Fill the supply tank one-half full with water, add the appropriate amount of HappyGroTM to the tank and finish filling the tank with water.

SPRINKLER CHEMIGATION

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 closed, 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 shut down. 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 water pump motor when 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.

Agitate the pesticide supply tank throughout the application of HappyGroTM. Except for turfgrass, apply HappyGroTM at the end of the irrigation period in a sufficient amount of water to allow proper coverage of plant or crop but not to exceed 8 fluid ounces of HappyGroTM per acre per application.

Fill the supply tank one-half full with water, add the appropriate amount of HappyGro[™] to the tank and finish filling the tank with water.

Crop	Groun	d	
	Water	Concentrate	
Vegetables, Field Crops	20		
Small fruits, Vines, Miscellaneous	150	50	
Tree crops	400	50	
Citrus	800	100	

APPLICATION DIRECTIONS (*

Use 13 fluid ounces of product in 100 gallons of water.

Do not tank mix with any agrochemical products that are alkaline. Final tank mix pH should be below 7.0. Compatibility has not been fully determined for all agrochemicals.

[Note to reviewer: The following optional language may appear on the final product label for one or more of the crops listed below – "Not for Use in California"]

Crop	Application Timing	Remarks
Brassica Vegetables such as: Broccoli, Cauliflower, Cabbage & Mustard greens	 - 1st application: At flowering stage. - 2nd application: 2 weeks after first application. - 3rd application: 7-10 days before harvest. 	Foliar application: Apply thoroughly until dripping. Add a non-ionic surfactant for hard to wet crops such as Cabbage.
Leafy Vegetables such as: Celery, Head lettuce, Leaf lettuce and Spinach	- Make one application 2 weeks prior to harvest.	Thorough foliar spray coverage is essential.
Cucurbit Vegetables such as: Cucumber, Muskmelon, Cantaloupe, Summer squash, Watermelon and Honeydew	 Make 1st application at early fruiting stage. Make 2 more applications at 2-week intervals. 	Enhances the number of flowers and fruit size.
Fruiting Vegetables such as: Tomato. Pepper and Eggplant	- Make 1 st application at early flowering stage.	To maximize yield, apply at 2- week intervals throughout the growing season.

Crop	Application Timing	Remarks
	- Make 2 more applications at 2-week intervals.	
Corn (Sweet, Field and Popcorn)	- Make one application, 6-8 days after full bloom.	Foliar application: Apply thoroughly until dripping.
Tuber Vegetables such as: Potato, Sweet potato, Yam	 1st application: At tuber initiation stage. 2nd application: 2-3 weeks after first application. 3rd application: At early bloom stage 	Foliar application: Apply thoroughly until dripping.
Root Vegetables such as: Carrot, Radish, Turnip, Ginseng, Horseradish, Parsley (turnip-rooted) and Sugar beet	 - 1st application: At plant thinning stage. - 2nd application: 3 weeks after first application. - 3rd application: Apply 2 weeks prior to harvest. 	Foliar application: Apply thoroughly until dripping.
Legume Vegetables	 - 1st application: Apply at the 3-5 trifoliate leaf stage. - 2nd application: Apply at 5-10% each bloom. - 3rd application: Apply at each pod stage, if needed. 	Apply thoroughly until dripping.
Citrus Fruits such as: Sweet orange, Lemon and Grapefruit	 1st application: At small fruit stage when fruit size is approx. 6-8 mm. 2nd application: 40 days prior to harvest. 3rd application: 20 days prior to harvest 	Apply thoroughly until dripping.
Pome/Stone Fruits such as: Apple, Apricot, Cherry, Plum, Plumcot and Peach	 - 1st application: At small fruit stage when fruit size is approx. 6-8 mm. - 2nd application: 40 days prior to harvest. - 3rd application: 20 days before harvest. If spraying to improve color, second application is not required 	Use as coloring agent: 13 fl. oz. product/100 gals water, spray 30 days before harvest. For growth retardation: Use 13 fl. oz. product/100 gals water when new growth is at 3 inches.
Tree Nuts (including Almonds)	 1st application: 2 weeks prior to bloom 2nd application: 2 weeks following petal fall 3rd application: 30 days after last application 4th application: 30 days after last application 	Apply thoroughly until dripping.
Grape	 - 1st application: 2 weeks before bud break - 2nd application: Small berry stage (4-6 mm in size). - 3rd application: 40 days prior to harvest. - 4th application: 20 days prior to harvest. If spraying to improve color, fourth application is not required. 	Use as coloring agent: 13 fl. oz. product/100 gals water, spray 30 days prior to harvest
Strawberry	- 1 st application at early flowering stage - 2 nd application 2 weeks after 1 st application - Repeat applications every two weeks	Apply thoroughly until dripping.
Cotton	- 1 st application: Apply when plants are in	Apply thoroughly until dripping.

Crop	Application Timing	Remarks
	 3-7 leaf stage. - 2nd application: Apply at the pin head square stage. - 3rd application: Apply at first bloom. 	
Sorghum	- Make one application, 5-8 days after full bloom.	Apply thoroughly until dripping.
Peanut	 - 1st application: Apply at the 3-5 leaf stage. 2nd application: Apply at initial pegging. - 3rd application: Apply 14 days after second application. - 4th application: Apply during pod fill. 	Apply thoroughly until dripping.
Rice	- Make one application 8 days after full bloom.	Apply thoroughly until dripping.
Wheat	- Make one application 8 days after full bloom.	Apply thoroughly until dripping.

TURFGRASS

[Note to reviewer - The following language is optional and may appear on the final product label: "Not for Use in California"]

For Sod Grass:

Apply **HappyGroTM** by ground using 20-40 gallons of water per acre. Apply 2.5 fl. oz. to 5.0 fl. oz. product in 20 gal. to 40 gals. of water, respectively, at a

1:1000 dilution rate.

For Turfgrass:

Apply HappyGro™ by ground according to the table below using 1-10 gallons

of water per 1000 sq. ft.

Use HappyGroTM for turf growth suppression at the dilution rate of 1: 1000

(1.3 fl. oz. product per 10 gals. water)

<u>Turf</u>	Amount (HappyGro TM /gals water/1000 sq ft*)	How and when to apply
Warm Climate grasses such as: St Augustine, Bermuda, Bermuda hybrids, Centipede & similar warm season grasses	0.13-0.65 fl.oz./1-5 gals of water/1000 sq. ft.	Make applications at 2-week intervals during the growing season.
Dichondra	0.65-1.3 fl. oz./5-10 gals of water/1000 sq. ft.	Treat as above
Cool Climate grasses such as: Bluegrass, Rye, Fescue, and similar cool season grasses	0.13-0.65 fl. oz./1-5 gals of water/1000 sq. ft.	Treat as above

^{*}Apply 0.13 fl. oz. per gallon

ORNAMENTALS

Greenhouse and nursery grown ornamentals

[Note to reviewer - The following language is optional and may appear on the final product label: "Not for Use in California"]

Differences in responsiveness may vary from one cultivar to another or from one set of growing conditions to another. Unless previous experience dictates otherwise, prior to widespread use, test a small number of plants from each cultivar to verify desired efficacy.

Foliage Plants:			
Aglaonema	Ajuga	Anthurium	Aphelandra
Caladium	Cissus	Dieffenbachia	Dracaena
Ficus	Fittonia	Gynura	Hoya
Maranta	Palms	Peperomia	Philodendron
Pilea	Pothos	Schefflera	Schlumbergera
Spathiphyllum	Syngonium	Tradescantia	
Similar foliage plants			
Bedding and Flower	ing Plants		***************************************
Abutilon	Aglais	Alyssum	Calceolaria
Canna	Carnation	Champaca	Chrysanthemum
Cineraria	Columbine	Coral Bells	Cyclamen
Dahlia	Delphinium	Dianthus	Foxglove
Fuchsia	Gardenia	Gazania	Geranium
Gladiolus	Gloxinia	Impatiens	Iris
Jasminum	Lily	Lupine	Marigold
Michelia	Monarda	Osmachus	Petunia
Poinsettia	Portulaca	Roses	Salvia
Scabiosa	Sedum	Sempervivum	Tulips
Vinca	Zinnia	Similar plants	z unpo
Woody Ornamentals	······		••••••
Arborvitae	Aucuba	Azalea	Boxwood
Carissa		English Ivy	Holly
Juniper	Maple	Pine	Podocarous
Rhododendron	Viburnum	Similar plants	r
Garden Grown Tree	Fruits	••••••	••••••
Apple	Asian pear	Apricot	Cherry
Fig	Guava	Grape	Jujubee
Kumquat	Lemon	Litchi	Longara
Mango	Orange	Peach	Persimmon
Plum	Prunus	Starfruit	Similar plants

Application Rates and Timing:

Dilute 1.3 fl. oz. of HappyGroTM in 10 gallons of water (1:1000 dilution rate) Repeat applications at 10-14 day intervals when required. Apply the last spray 1-2 weeks prior to sale. Uniform and thorough spray coverage is necessary for best results.

HappyGro™ is not a fertilizer; therefore, incorporate good fertilization program practices.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE:

Protect from freezing. Store out of direct sunlight.

PESTICIDE DISPOSAL:

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

CONTAINER DISPOSAL:

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.

LIMITED WARRANTY AND DISCLAIMER

NOTICE: LT BioSyn, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions For Use. Buyer assumes all risks of use and handling not in strict accordance with the directions provided in this label. LT BioSyn, Inc. makes no other express or implied warranty of fitness or merchantability. To the fullest extent permitted by law, neither LT BioSyn, Inc. nor the seller shall be liable for damages resulting from the use or handling of this product not in accordance with the directions provided in this label. LT BioSyn, Inc. and Seller offer this product and the Buyer and user accept it, subject to the foregoing Limited Warranty and Disclaimer which may be varied only by agreement in writing signed by a duly authorized representative of LT BioSyn, Inc.

HappyGro™ is a trademark of LT BioSyn, Inc.

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