Transferred from LT BioSyn, Inc. EPA Reg. No. 72639-10

Base

5.000" x 5.750"

CP Bio, Inc.

HappyGro™

A Plant Growth Regulator For Crops

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 disposing of equipment washwater or rinsate.

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.

Not For Use, Sale or Resale in California

ACTIVE INGREDIENT:
Cytokinin, as Kinetin .....0.5% w/w
OTHER INGREDIENTS ....99.5% w/w
TOTAL 100.0% w/w

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EPA Reg. No. 88031-13 EPA Est. No. 88031-CA-001

CP Bio, Inc.
4802 Murrieta St.
Chino, CA 91710 USA

TEL: 1-(909)-348-5133
FAX: 1-(909)-348-5135
E-Mail: info@cpbio.com

Net Contents: 1 Gallon (3.785 L)

Department of Agriculture
STATE OF HAWAII
LICENSED
PERIOD 2010-2012 LIC. NO.

Department of Agriculture
STATE OF HAWAII
LICENSED
PERIOD 2013-2015 LIC. NO.
8887.1

DISC.

TURFGRASS

For Sod Grass: Apply HappyGro™ 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.

Turf	Application & Timing	HappyGro™ Rate/1000 ft.	Water Volume/1000 ft.
Warm Climate grasses such as: St Augustine, Bermuda, Bermuda hybrids, Centipede & similar grasses	1st application: When turf greens up in the spring.	0.13-0.65 fl. oz.	1-5 gals.
	Repeat at 18-21 day intervals during the growing season.		
Dichondra	1st application: When turf greens up in the spring.	0.65-1.3 fl. oz.	5-10 gals.
	Repeat at 18-21 day intervals during the growing season.		
Cool Climate grasses such as: Bluegrass, Rye, Fescue, and similar grasses	1st application: When seeded grass becomes established or at the beginning of the season for perennials.	0.13-0.65 fl. oz.	1-5 gals.
	Repeat as needed.		

ORNAMENTALS

Greenhouse and nursery grown ornamentals

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 form each cultivar to verify desired efficacy.

APPLICATION INSTRUCTIONS

HappyGro™ is applied to foliage of ornamentals and leaves of bedding plants. Mixing instructions: dilute 1.3 fl. oz. of HappyGro™ in 10 gallons (37.8 ml / 10 gal) of water (1:1000 dilutions) for smaller quantities mix 0.13 fl.oz. HappyGro™ (1 tsp or 3.7 ml) per 1 gallon of water. Use sufficient volume of water to obtain uniform coverage. Thorough coverage is necessary for best results.

Plant	Timing	HappyGro™ Rate	Volume of Water
Foliage Plants: Aglaonema, Ajuga, Anthurium, Begonia, Brassaia, Calathea, Chlorophytum, Dracaena, Ficus, Fittonia, Gynura, Hoya, Maranta, Palms, Peperomia, Philodendron, Pilea, Pothos, Schefflera, Schlumbergera, Spathiphyllum, Syngonium, Tradescantia, Zebrina	1st application: At the beginning of the season.	¾ tsp.	1 gal.
	Subsequent applications: Spray foliage 2-3 times throughout the year at even intervals.	1.3 fl. oz.	10 gal.
Bedding and Flowering Plants: Abutilon, Ajiles, Alyssum, Calceolaria, Cineria, Cleroduen, Champaca, Chrysanthemum, Cineraria, Columbina, Cineraria, Cyclamen, Delphinium, Dianthus, Foxglove, Fuchsia, Gerberia, Gazania, Geranium, Gladiolus, Gloxinia, Hydrangea, Impatiens, Lobelia, Lotus, Marigold, Michelia, Monarda, Ornithus, Petunia, Poinsettia, Portulaca, Roses, Salvia, Senecio, Sequoia, Temperanum, Tulips, Vinca, Zinnia, and Similar plants	Bedding Plants: 1st application: At 3-5 leaf stage. 2nd application: 10-14 days prior to sale.	¾ tsp.	1 gal.
	Greenhouse Plants: 1st application: 21-30 days after transplanting or in the Spring as re-growth begins. 2nd application: At flowering.	3 tsp.	4 gal.
		1.3 fl. oz.	10 gal.

Plant	Timing	HappyGro™ Rate	Volume of Water
Woody Ornamentals: Hibiscus, Aucuba, Azalea, Boxwood, Carissa, Chinese Holly, Ficus, Juniper, Juniper, Magnolia, Photinia, Pittosporum, Rhododendron, Viburnum, and Similar plants	1st application: Early in the season as new growth begins. Subsequent applications: every 30 days as necessary	1.3 fl oz.	10 gal.
Garden Grown Tree Fruits: Apple, Asian pear, Apricot, Cherry, Fig, Guava, Grape, Jujube, Kumquat, Lemon, Litchi, Longana, Mango, Orange, Peach, Persimmon, Plum, Prunus, Starfruit and Similar plants	1st application: When fruit size is approximately 3-5 mm. 2nd application: 40 days prior to harvest.	3 tsp.	4 gal.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE:

HappyGro™ Store in its original container in a cool, dry locked place out of the reach of children and 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:

Non-refillable container. Do not reuse or refill this container. Triple rinse (or equivalent). Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. 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: CP Bio, 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. CP Bio, Inc. makes no other express or implied warranty of fitness or merchantability. To the fullest extent permitted by law, neither CP Bio, Inc. nor the seller shall be liable for losses or injuries resulting from the use or handling of this product not in accordance with the directions provided in this label. CP Bio, 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 Cp Bio, Inc.

HappyGro™ is a trademark of Cp Bio, Inc.

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USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE 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.

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 State or Tribal 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 (a cytokinin), the active ingredient in HappyGro™, is a plant growth hormone that can occur naturally. Kinetin has shown to increase cell division, cell differentiation and cell growth. HappyGro™ can enhance plant growth and development when applied as directed. HappyGro™ is a proprietary formulation.
HappyGro™ is not a fertilizer; therefore, incorporate good fertilization program practices. Under certain circumstances kinetin may delay senescence of the leaves on some crops. Make applications at the proper timing and when the crop is actively growing.

APPLICATION DIRECTIONS

For all crops, unless otherwise specified, tank mix HappyGro™ by adding 13 fluid ounces per 100 gallons of water and spray crop canopy with sufficient volume to ensure uniform coverage. For more specific application instructions see the following table. Use the rates with the corresponding lower volumes and higher rates with higher volumes. Do not tank mix with any agrochemical products that are alkaline. Make sure the final tank mix pH is below 7.0. If sufficient rain to wash leaf occurs within 3 hours of application, re-apply. Compatibility has not been fully determined for all agrochemicals.

Crop	Application Timing	HappyGro™ Rate/Acre	Water Volume/Acre**
Brassica Vegetables such as: Broccoli, Cauliflower, Cabbage & Mustard greens	1st application: At flowering stage.	2 fl. oz.	15 gal.
	2nd application: 10-14 days after first application.	2-3 fl. oz.	15-25 gal.
	3rd application: 7-10 days before harvest.		
Leafy Vegetables such as: Celery, Head lettuce, Leaf lettuce and Spinach	1st application: During mid-season growth.	3-5 fl. oz.	25-40 gal.
	2nd application: 10-14 days prior to harvest.		
Cucurbit Vegetables such as: Cucumber, Muskmelon, Cantaloupe, Summer squash, Watermelon and Honeydew	Make 1st application at early fruiting stage.	2-3 fl. oz.	15-25 gal.
	Make 2 or more applications at 10-14 day intervals.	3-5 fl. oz.	25-40 gal.
Fruiting Vegetables such as: Tomato, Pepper and Eggplant	Make 1st application at early flowering stage.	2-3 fl. oz.	15-25 gal.
	Make 2 more applications at 10-14 day intervals.	3-5 fl. oz.	25-40 gal.
Tuber Vegetables such as: Potato, Sweet potato, Yam	1st application: At tuber initiation stage.	2-3 fl. oz.	15-25 gal.
	2nd application: 14-21 days after first application.		
	3rd application: At early bloom stage.	3-5 fl. oz.	25-40 gal.
Root Vegetables such as: Carrot, Radish, Turnip, Ginseng, Horseradish, Parsley (turnip-rooted) and Sugar beet	1st application: At plant thinning stage.	2 fl. oz.	15 gal.
	2nd application: 21 days after first application.	2-3 fl. oz.	15-25 gal.
	3rd application: Apply 10-14 days prior to anticipated harvest.	3-5 fl. oz.	25-40 gal.
Legume Vegetables such as: Dry beans, Green beans, Peas, Soybeans, Lentils	1st application: Apply at the 3-5 trifoliate leaf stage.	2 fl. oz.	15 gal.
	2nd application: Apply at 5-10% each bloom.	2-3 fl. oz.	15-25 gal.

Crop	Application Timing	HappyGro™ Rate/Acre	Water Volume/Acre**
Citrus Fruits such as: Sweet orange, Lemon, Tangelos and Grapefruit	1st application: At small fruit stage when fruit size is approx. 6-8 mm.	6-12 fl. oz.	50-100 gal.
	2nd application: 40 days prior to harvest.	24-32 fl. oz.	200-250 gal.
Pome/Stone Fruits such as: Apple, Apricot, Cherry, Plum, Plumcot and Peach	1st application: At small fruit stage when fruit size is approx. 3-5 mm.	6-12 fl. oz.	50-100 gal.
	2nd application: 40 days prior to harvest.	24-32 fl. oz.	200-250 gal.
Tree Nuts such as: Almonds, Pistachios, Pecans	1st application: 2 weeks prior to bloom.		
	2nd application: 2 weeks following petal fall.	6-12 fl. oz.	50-100 gal.
	3rd application: 30 days after last application.		
Grapes including: table, wine and raisin varieties	1st application: 10-14 days before bud break.	3-5 fl. oz.	25-40 gal.
	2nd application: Small berry stage (3-5 mm in size).	6-12 fl. oz.	50-100 gal.
	3rd application: 40 days prior to harvest.		
Small Fruits such as: Strawberry, Raspberry, Blackberry, Blueberries.	1st application: At early flowering stage.		
	2nd application: 10-14 days after 1st application.	2-3 fl. oz.	15-25 gal.
	Repeat applications every 10-14 days.		
Corn (Sweet, Field and Popcorn)	Make one application, 6-8 days after full bloom.	3-5 fl. oz.	25-40 gal.
Cotton including short staple, acala & pima varieties	1st application: Apply at the pin head square stage.	2-3 fl. oz.	15-25 gal.
	2nd application: Apply at first bloom.	3-4 fl. oz.	20-30 gal.
Small Grains such as: Wheat, Barley, Rice, Sorghum	Make one application, 5-8 days after full bloom.	2-3 fl. oz.	15-25 gal.
Peanut including all commercial varieties	1st application: Apply at the 3-5 leaf stage.	2-3 fl. oz.	15-25 gal.
	2nd application: Apply at initial pegging.		
	3rd application: Apply during pod fill.	3-5 fl. oz.	25-40 gal.

**Note: If using any other volume of water, use the tank mix dilution rate of 13 fl. oz. of HappyGro™ per 100 gallons of water and use sufficient water volume to obtain uniform coverage.