

MARATHON[®]

Greenhouse and Nursery Insecticide



An American Vanguard Company

FOR SYSTEMIC AND FOLIAR INSECT CONTROL ON ORNAMENTALS
INCLUDING VEGETABLE PLANTS INTENDED FOR RESALE IN GREENHOUSES,
NURSERIES, AND INTERIOR PLANTSCAPES.

Product Information Bulletin

1 2 1

GENERAL INFORMATION

MARATHON is a highly-active insecticide that demonstrates thorough systemic activity in plants when applied to the soil surface. **MARATHON** applied as a foliar spray provides translaminar activity resulting in quick knockdown and extended residual control.

Common Name: Imidacloprid

Class: Neonicotinoid

GROUP	4A	INSECTICIDE
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Packaging:

- **MARATHON 1% G** (Topical)
5 pound container
50 pound container
- **MARATHON II** (Drench or Spray)
250 ml bottle

RESTRICTED ENTRY INTERVAL (REI) AND SIGNAL WORD

REI = **12 hours**

Signal Word = **CAUTION**

PERSONAL PROTECTION EQUIPMENT (PPE)

- Coveralls
- Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton.
- Shoes plus socks
- Protective eye wear

MODE OF ACTION

MARATHON works by binding to the insect's nicotinic acetylcholine receptors, disrupting nerve transmission.

MARATHON is not a cholinesterase inhibitor.

INSECTS CONTROLLED

Adelgids	Root Mealybugs
Aphids	Root Weevils
Fungus Gnat	(e.g. Black Vine Weevil)
Japanese Beetle	Royal Palm Bugs
Adults	Sawfly Larvae
Lacebugs	Soft Scale
Leafhoppers	White Grub Larvae
(Glassy Winged	Japanese Beetles
Sharp Shooter)	Masked Chafers
Leafminers	European Chafers
Longhorned and	Oriental Beetles
Flatheaded Borers	Asiatic Garden Beetle
Mealybugs	Whiteflies
Psyllids	

See label for complete list of insects controlled.

ADVANTAGES OF MARATHON

- Fast translaminar knockdown as a spray
- Low use rates
- Broad spectrum insect control
- Labeled for greenhouse vegetables

APPLICATION RATES

Foliar spray: 50 ml per 100 gallons (**Marathon II**) Foliar applications should be made when insect populations are at low levels and can be repeated on an as-needed basis. The addition of an organosilicone surfactant may increase efficacy. See label for drench instructions.

TANK MIXING

MARATHON II have been found to be compatible with commonly used liquid fertilizers, fungicides, and insecticides. If local experience is unavailable, check compatibility in a small jar test.

Soil application rates: (see tables)
 Soil applications should be made when insect populations are at low levels. Soil should be moderately moist when application is made. Irrigate moderately but thoroughly after application allowing no leaching or runout from containers for at least three irrigations or 10 days whichever is longer.

APPLICATION TO GH VEGETABLES

MARATHON G and **MARATHON II** are labeled for use on vegetable transplants grown in greenhouses as both a spray and drench.

RESISTANCE MANAGEMENT

Some insects are known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product should conform to resistance management strategies established in your area. It is recommended this product not be used in sequence with any other product with the same mode of action.

APPLICATION TIPS

MARATHON as a drench should be applied to established but actively growing plants. Because **MARATHON** is taken up by the roots and translocated throughout the plant, applications should be made when the root system is visible on the perimeter of the growing media. Applications made to a poor or underdeveloped root system will result in less insect control. If the plant is healthy and under minimal stress, **MARATHON** uptake will be more efficient. If drench applications are made too late, control will be negatively affected. Media should be moderately moist at the time of application. Irrigate moderately but thoroughly after application allowing no leaching or runout from containers for at least three irrigations or 10 days whichever is longer.

Use of Marathon according to the labeling is subject to the use precautions and limitations imposed by the label affixed to the container of Marathon. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Always read product label prior to product use.

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APPLICATION RATES

Marathon 1% G Topical Rates

		DOSAGE	
USE PATTERN	Container Size (inches)	Topical Application	
		Topical Rate	
		Level Teaspoon	Grams/ pot
Herbaceous Species (one or two plants per pot)	2.0 to 3.0	1/8 to 1/4	0.5 to 1.0
	3.5 to 5.0	1/4 to 1/3	1.0 to 1.4
	5.5 to 7.0	1/3 to 1/2	1.4 to 2.0
	8.0 to 10.0	1/2 to 2/3	2.0 to 2.7
	11.0 to 12.0	2/3 to 1	2.7 to 4.1
Woody Perennial Species (three or more plants per pot)	2.0 to 3.0	1/4 to 1/3	1.0 to 1.4
	3.5 to 5.0	1/3 to 1/2	1.4 to 2.0
	5.5 to 7.0	1/2 to 2/3	2.0 to 2.7
	8.0 to 10.0	2/3 to 1	2.7 to 4.1
	11.0 to 12.0	1 to 1-1/2	4.1 to 6.1

Marathon II Foliar Spray Rates

CROP	PEST	DOSAGE
Trees (including nonbearing fruit and nut) Shrubs Evergreens Flowers Foliage Plants Ground Covers Interior Plantscapes Vegetable Plants	Adelgids Aphids Japanese Beetles (adults) Lacebugs Leaf Beetles (including elm and viburnum leaf beetles) Leafhoppers (including glassy winged sharpshooter) Leafminers Mealybugs Sawfly Larvae Thrips (suppression) Whiteflies	1.7 fl. oz. (50 mL) per 100 gallons of water

Please read the the Protection of Pollinators information on the Marathon II specimen label before use



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