Supplemental Label





EPA Reg. No. 86203-11-59639 (Except California and New York)

SAFARI® 20 SG INSECTICIDE FOR USE ON ORNAMENTAL PLANTS AND FORESTS

This supplemental label expires on June 30, 2016 and must not be used or distributed after this date.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF APPLICATION. READ THE LABEL AFFIXED TO THE CONTAINER FOR *SAFARI* 20 SG INSECTICIDE BEFORE APPLYING. USE OF *SAFARI* 20 SG INSECTICIDE ACCORDING TO THIS LABELING IS SUBJECT TO THE USE PRECAUTIONS AND LIMITATIONS IMPOSED BY THE LABEL AFFIXED TO THE CONTAINER FOR *SAFARI* 20 SG INSECTICIDE.

Application to Ornamental Plants (including Forestry):

- Safari 20 SG Insecticide can be applied as a foliar spray, a broadcast spray, a soil drench, soil injection and via chemigation for insect control in ornamental plants in greenhouses, nurseries, outdoor landscapes and interior plantscapes.
- Safari 20 SG Insecticide is a systemic product and will be taken up by the root system and translocated upward throughout the plant. When applied as a foliar spray, the product offers translaminar and locally systemic control of foliar pests.
- When applied to the soil, *Safari* 20 SG Insecticide will be translocated more quickly in herbaceous plants than in woody shrubs and trees. Speed of insect control will range from as little as one day for small herbaceous plants in containers, to several weeks in large trees growing in the landscape.
- For outdoor and landscape ornamentals, neither broadcast NOR soil applications can exceed a total of 2.7 lbs of product (0.54 lbs active ingredient) per acre per year.
- For trees in forests that are pollinated by bees or other invertebrates, make applications post-bloom.

Application to Vegetable Transplants:

- Safari 20 SG Insecticide can be applied as a foliar spray or a broadcast spray for insect control in vegetable transplants.
- Do not apply more than 1.34 lbs (0.268 lbs ai) per acre of nursery per year.

Applications to ornamental plants, forestry, and vegetable transplants:

Safari 20 SG Insecticide can be applied using many different types of application equipment. Apply in sufficient water to ensure good coverage of ornamental plants. Tank mixing with a surfactant will produce better coverage when making applications to plants with hard to wet foliage such as holly or pine. If concentrate or mist type spray equipment is used, apply the same amount of product on the sprayed area as would be used in a dilute solution. To assure optimum effectiveness, the product must be placed where the growing portion of the target plant can absorb the active ingredient. Applications can be made to foliage or as a soil drench.

RESTRICTIONS

- With the exception of non-livestock animals, do not graze treated areas or use clippings from treated areas for feed or forage.
- Prevent runoff or puddling of irrigation water following application.
- Keep children and pets off treated areas until spray has dried.
- Do not apply to areas that are water logged or saturated, or frozen, which will not allow penetration into the root zone of the plant.

Crop	Pest	Product Rate	Remarks
Ornamental plants	Adelgids including:	Foliar Spray	Make firs
including:	Hemlock Woolly	1/4 to 1/2 lb	application just
Shrubs	Balsam Woolly	per 100 gallons	before pes
Bedding Plants	Aphids (suppression) including:		populations reac
Flowering Plants	Crepe Myrtle,	(4 to 8 oz per 100 gallons)	an economi
Foliage Plants	Green Peach		threshold.
Ground Covers	Melon	(0.05 to 0.1 lbs ai per	necessary, make
Evergreens	Japanese beetles (adults)	100 gallons)	second applicatio
Ornamental Trees	Lacebugs including:		after 14-21 days.
Non-Bearing Fruit Trees	Azalea, Hawthorne	8 - 16 oz per Acre	
Non-Bearing Nut Trees	Leaf beetles	(0.4 ± 0.0) lbs $si(A)$	Tank mixing with
Non-Bearing Vines	Viburnum	(0.1 to 0.2 lbs ai/A)	surfactant ma
	Leafhoppers, including	0.2 - 0.4 oz per 1,000 sq ft	improve control of
Christmas Trees	Glassy-Winged Sharpshooter Potato	0.2 - 0.4 02 per 1,000 sq it	pests such a
Trees in Plantations	Leafminers including:		whitefly, mealybu
including:	Serpentine	For treatment of	and scale. Confirm
Conifers	Mealybugs including:	small areas:	plant safety of tan
Deciduous trees	Citrus, Long-Tailed, Madeira,	Sman a cas.	mix in small are
	Obscure, Phormium, Pink Hibiscus	1/2 - 1.0 tsp per gallon	before using on
Reforestation Nurseries	Psyllids including:		commercial scale.
	Asian Citrus		
Forests and Wooded	Root Weevils (adults) including:		100 gals of spra
Areas,	Black Vine, Diaprepes		mix will treat 20,00
National, Private and	Sawflies (larvae)		sq ft of area whe
State	Scale (Armored and Soft) including:		using a typical hig
	Cryptomeria, Cycad Aulacaspis,		volume sprayer.
	Elongate Hemlock, Euonymus,		using a low volum
	Florida Red, Florida Wax, Tea		sprayer, adju
	Thrips including:		concentration 1
	Chilli, Gynaikothrips uzeli,		apply the sam
	Western Flower (Suppression)		amount of produc
	Whiteflies including:		per unit area.
	Fig (Ficus), Giant, Greenhouse,		
	Silverleaf /Sweetpotato		

One (1) level teaspoon contains 2.4 grams and 1 cup (8 fl oz) contains 4.0 oz by weight of *Safari* 20 SG Insecticide. Make first application just before pest populations reach an economic threshold. If necessary, make a second application after 14-21 days.

Restrictions:

Not for use on house plants grown inside private residences. Do not apply more than 2.7 lbs (0.54 lbs ai) per acre of nursery, landscape or forest per year. For trees in forests that are pollinated by bees or other invertebrates, make applications post-bloom.

To delay the development of resistance: Do not apply *Safari* 20 SG Insecticide or other Group 4A insecticides to consecutive generations of the same insect species without switching to a different mode of action. Do not make more than two sprays of *Safari* 20 SG Insecticide or other Group 4A insecticides to a single crop. Refer to "Resistance Management" section of label for further guidelines.

ORNAMENTAL PLANTS AND FORESTS

APPLICATION TO SOIL

For systemic insect control on containerized and field grown (in-ground) ornamental plants in nurseries, greenhouses, interior plantscapes, lath and shadehouses, outdoor landscapes (commercial, industrial, recreational and residential), tree plantations, reforestation nurseries and forests when applied via soil drench, soil injection, micro-irrigation (spaghetti tube or emitter), drip irrigation, overhead irrigation, ebb and flood irrigation equipment or motorized irrigation equipment.

Сгор	Pest	Product Rate (By weight)		Remarks
Ornamental plants including: Shrubs Bedding Plants Flowering Plants	Adelgids including: Hemlock Woolly Balsam Woolly Aphids including	Containerized Plants Soil Media Drench		Only apply to moist soil media. Do not apply to dry or saturated media.
Foliage Plants Ground Covers Evergreens	Crepe Myrtle Green Peach Melon	3/4 to 1-1/2 pounds per 100 gallons		Do not apply media drench until roots from transplanted plugs or liners
Ornamental Trees Non-Bearing Fruit Trees Non-Bearing Nut Trees Non-Bearing Vines	Bagworms Eastern Tent Caterpillar Erythinia Gall Wasp Flatheaded Borers	per 100	4 ounces) gallons easpoons	have extended at least half way to the edge of pots. Do not leach treated soil
Christmas Trees	including: Emerald Ash	per	gallon	media for at least 7 days after application or
Trees in Plantations including: Conifers	Flatheaded Appletree Fungus Gnats (larvae) Gypsy Moth (larvae)	Media Drench Volume for Individual Pots		performance may be reduced.
Deciduous trees Reforestation Nurseries	Japanese Beetle (Adults) Lacebugs including: Azalea	Pot diameter (inches)	fl oz of dilute solution per pot	Heavy rainfall or excessive irrigation following application may decrease performance.
Forests and Wooded Areas,	Hawthorne	4	2	
National, Private and State	Leaf Beetles including Elm	5	3	Higher rates will be needed to control insects on woody
	Viburnum Leafhoppers including	6	4	plants than on herbaceous plants.
	Glassy-Winged	7	5	plants.
	Sharpshooter Potato	8	6	
	(continued)	apply 3 - 4 f solution (0.1 product per 2 per gallon media. Use volume that i wet soil m resulting in	pot volumes, fl oz of dilute 11 to 0.22 g 4 fl oz, water) of potting e a drench is sufficient to nedia without overflow or gh drain holes	
		Container	ized Plants	
		for Plants Beds, Bencl	nch Volume in Raised hes, Bedding and Liner	
		solution to w	icient dilute vet soil media of liquid from d or liner.	continued

ORNAMENTAL PLANTS AND FORESTS (Continued)

APPLICATION TO SOIL

For systemic insect control on containerized and field grown (in-ground) ornamental plants in nurseries, greenhouses, interior plantscapes, lath and shadehouses, outdoor landscapes (commercial, industrial, recreational and residential), tree plantations, reforestation nurseries and forests when applied via soil drench, soil injection, micro-irrigation (spaghetti tube or emitter), drip irrigation, overhead irrigation, ebb and flood irrigation equipment or motorized irrigation equipment.

Сгор	Pest	Product Rate (By weight)		Remarks
Ornamental plants including: Shrubs Bedding Plants Flowering Plants Foliage Plants	Leafminers including: Birch Boxwood Chrysanthemum Holly	Containerized Plants Ebb and Flood Irrigation		Bring several pots to field capacity, let soil dry and then measure amount of water required to bring pots back to field
Ground Covers Evergreens Ornamental Trees Non-Bearing Fruit Trees	Serpentine Mealybugs Citrus Longtailed	Pot diameter (inches)	Ounces per 1,000 pots	pots back to field capacity. Multiply the average volume of water required to rehydrate one pot by the number of pots
Non-Bearing Nut Trees Non-Bearing Vines	Madeira Obscure Phormium	4	1.9 – 3.7	to be treated. Add this volume of water to the minimum amount of water
Christmas Trees Trees in Plantations including: Conifers	Pink Hibiscus Root Mimosa Webworm	5	2.8 – 5.6	needed to flood the area to be treated. Re-use any returned volume in subsequent irrigation of
Deciduous trees	(larvae) Peachtree Borer Pine tip moth (larvae) Plantbugs	6	3.7 – 7.5	subsequent irrigation of same plants. For pot diameter greater
Reforestation Nurseries Forests and Wooded Areas, National, Private and State	Psyllids including: Asian Citrus Boxwood	7	4.7 - 9.3	than 8", use 3.7 - 7.5 ounces of <i>Safari</i> 20 SG Insecticide per 1,000
	Root Weevils (larvae and adults) including Black Vine Diaprepes	8	5.6 - 11.2	gallons of potting soil media.
	Roundheaded Borers (excluding Asian Longhorned) Royal Palm Bug Sawfly larvae Scales (Armored and Soft) Including:	individua us micro- sy	gation of I containers ing a irrigation stem etti tube)	Use typical injection ratio for injectors (e.g. 1:100, which equals1 part injector tank solution: 100 parts irrigation water). Do not mix more than 24 oz of <i>Safari</i> 20 SG Insecticide per gallon of
	Azalea Bark Brown Soft Calico California Red Cottony Cushion	Injection ratio	Ounces per gallon of injector tank water	injector tank water, or some product may settle out of solution. Calibrate irrigation system to deliver 3 - 4 fl oz of dilute solution
	Cottony Maple Cryptomeria	1:100	12 - 24	per gallon of potting media.
	(continued)			a a a time a d

ORNAMENTAL PLANTS AND FORESTS (continued)

APPLICATION TO SOIL

For systemic insect control on containerized and field grown (in-ground) ornamental plants in nurseries, greenhouses, interior plantscapes, lath and shadehouses, outdoor landscapes (commercial, industrial, recreational and residential), tree plantations, reforestation nurseries and forests when applied via soil drench, soil injection, micro-irrigation (spaghetti tube or emitter), drip irrigation, overhead irrigation, ebb and flood irrigation equipment or motorized irrigation equipment.

Сгор	Pest	Product Rate (By weight)	Remarks
Ornamental plants including: Shrubs Bedding Plants Flowering Plants Foliage Plants Ground Covers Evergreens Ornamental Trees Non-Bearing Fruit Trees Non-Bearing Nut Trees Non-Bearing Vines Christmas Trees Trees in Plantations including: Conifers Deciduous trees Reforestation Nurseries Forests and Wooded Areas, National, Private and State	Scales (Armored and Soft) continued Cycad Aulacaspis Duplachionaspis Elongate Hemlock Euonymus False Florida Red False Oleander Fig (Ficus) Wax Fletcher Florida Red Florida Wax Indian Wax Lecanium Lobate Lac Melanaspis deklei Obscure Oystershell Poplar (Aspen) Pine Needle Tea Tuliptree Spittlebugs Tent Caterpillar (larvae) Thrips including: Chilli (Suppression) Citrus Cuban Laurel Gladiolus Gynaikothrips uzeli (Suppression) Western Flower (Suppression) Whiteflies including: Ficus Giant Greenhouse Silverleaf/Sweetpotato (B and Q biotypes) White Grubs including: Oriental Beetle	Field Grown (In-Ground) Shrubs 3 - 6 grams (1.25 - 2.5 level teaspoons) per foot of height 1.0 - 2.1 ounces per 10 feet of height	When applied to the soil, <i>Safari</i> 20 SG Insecticide is taken up by actively growing trees and shrubs. Speed of control will be dependent on plant size, plant health, environmental conditions and how actively pests are feeding. In actively growing plants, control may be evident within 1-3 weeks after application depending on plant size. Time applications to coincide with when most vulnerable pest life stage is present on plants. Control may be less effective when applied to dry, saturated, or frozen soil, or at times when plants are not actively taking up water from soil. If possible, irrigate dry soils 1-3 days before application, or apply irrigation within 3 days after application. Heavy rainfall or inadequate irrigation immediately following application may decrease performance. Use higher labeled rates for broadleaf evergreens with dense foliage (ex. hollies), and with very large trees. Soil Drench: Mix required dose in water and uniformly apply to soil around base of shrub or tree. Pull back mulch before drenching. Apply 1-4 pints of drench solution per foot of height (shrubs) or inch of trunk diameter (trees). Adjust drench volume based on soil type, soil moisture and thickness of mulch so that product is moved into root zone. To enhance soil penetration in heavy soils and sloping terrain, dig shallow holes around tree or shrub, and apply drench solution in holes. Lower drench volumes may be less effective in dry soils or when applied over heavy mulch unless there is adequate rainfall or irrigation after application to move product into root zone.

ORNAMENTAL PLANTS AND FORESTS (continued)

APPLICATION TO SOIL

For systemic insect control on containerized and field grown (in-ground) ornamental plants in nurseries, greenhouses, interior plantscapes, lath and shadehouses, outdoor landscapes (commercial, industrial, recreational and residential), tree plantations, reforestation nurseries and forests when applied via soil drench, soil injection, micro-irrigation (spaghetti tube or emitter), drip irrigation, overhead irrigation, ebb and flood irrigation equipment or motorized irrigation equipment.

Сгор	Pest	Product Rate (By weight)	Remarks
Crop Ornamental plants including: Shrubs Bedding Plants Flowering Plants Foliage Plants Ground Covers Evergreens Ornamental Trees Non-Bearing Fruit Trees Non-Bearing Nut Trees Non-Bearing Vines Christmas Trees Trees in Plantations including: Conifers Deciduous trees Reforestation Nurseries Forests and Wooded Areas, National, Private and State	Pest (Refer to list above)		RemarksSoilInjection:Mix required dose in water and make at least four injections per shrub or tree with a low-pressure applicator.Use same amount of solution per hole.Injections can be made using the following methods:GridSystem-Space injections on a 2.5 ft center extending to drip line.CircleSystem-Make injections in concentric circles extending inward from drip line.BasalSystem-Make injections evenly around trunk no more than 24" out from the base.Safari 20 SG Insecticide may be soil injected with low volume (e.g. Kioritz injector) or high volume injection equipment.Inject 1 - 32 fl oz of dilute solution per foot of height or inch of trunk diameter depending on application equipment.Make shallow injections where feeder roots are most concentrated.Apply in enough water to wet the lower 12" of trunk and surrounding soil surface. Apply in a one foot wide band over base of trunk and soil
			down center of hedgerow. To improve performance, rake back mulch before application.

ORNAMENTAL PLANTS AND FORESTS (continued)

APPLICATION TO SOIL

For systemic insect control on containerized and field grown (in-ground) ornamental plants in nurseries, greenhouses, interior plantscapes, lath and shadehouses, outdoor landscapes (commercial, industrial, recreational and residential), tree plantations, reforestation nurseries and forests when applied via soil drench, soil injection, micro-irrigation (spaghetti tube or emitter), drip irrigation, overhead irrigation, ebb and flood irrigation equipment or motorized irrigation equipment.

Сгор	Pest	Product Rate (By weight)		Remarks
Ornamental plants including: Shrubs Bedding Plants Flowering Plants Foliage Plants	(Refer to list above)	Banded s to s	rown nursery stock spray application oil surface bs per acre)	Apply as a uniform band in row over root zone and lower 6-12" of trunk. Apply from peak adult flight to peak egg hatch.
Ground Covers Evergreens Ornamental Trees		Row spacing in feet	Ounces per 1,000 linear feet of row	Apply in at least two gallons of water per 1,000 linear feet. Irrigate after application to
Non-Bearing Fruit Trees Non-Bearing Nut Trees		3	3	move product into soil profile.
Non-Bearing Vines Christmas Trees		4	4	Control any weeds in treated area prior to application, or performance may be reduced.
Trees in Plantations		5	5	Adjust rates accordingly for
including: Conifers Deciduous trees		6	6	other row spacing. Irrigate after application to move
Reforestation Nurseries		7	7	Safari 20 SG Insecticide to the root zone.
Forests and Wooded Areas, National, Private and State		8	8	
		Broadcast spray to soil of plant beds 2.7 lbs per acre		Apply over the top of ornamental plant beds in a water volume sufficient to move product to soil surface. If necessary, irrigate after application to move product off of foliage and into upper root zone of soil. May be less effective on large woody shrubs than on herbaceous annuals and perennials.

Important Notes:

One (1) level teaspoon contains 2.4 grams, and 1 cup (8 fl oz) contains 4.0 oz by weight of Safari 20 SG Insecticide.

For all soil applications, including chemigation, retreatments may be made after 7 days but do not apply more than 2.7 lbs (0.54 lbs ai) per acre of nursery, landscape or forest per year.

Restrictions:

Do not apply more than 2.7 lbs (0.54 lbs ai) per acre of nursery, landscape or forest per year.

To delay the development of resistance in greenhouses, nurseries and interiorscapes, do not make more than one soil application per crop cycle or three-months, whichever is shorter. Refer to "Resistance Management" section of the label for additional guidelines.

ORNAMENTAL PLANTS AND FORESTS

BASAL TRUNK SPRAYS IN TREES AND LARGE SHRUBS

For systemic insect control in containerized and field grown (in-ground) ornamental trees and shrubs in nurseries, interior plantscapes, lath and shadehouses, outdoor landscapes (commercial, industrial, recreational and residential), tree plantations and forests when applied as a trunk spray.

Сгор	Pest	Product Rate (By weight)	Remarks
Shrubs Ornamental trees Non-Bearing Fruit Trees Non-Bearing Nut Trees Trees in Plantations including: Conifer Deciduous Reforestation Nurseries Forests and Wooded Areas National, Private and State	Adelgids including Hemlock Woolly Flatheaded Borers including: Emerald Ash Flatheaded Appletree Mountain Pine Beetle Scales including Calico Cryptomeria Elongate Hemlock Fig (Ficus) Wax Thrips (Suppression) Whiteflies including Fig (Ficus)	12 - 24 oz per gallon Depending on bark type and thickness, one gallon of spray solution will typically cover 65-85" of cumulative trunk diameter (1.5 - 2.0 fl oz per inch of trunk diameter) when applied to trunk between soil surface and 4.5 feet above soil surface.	When sprayed on the trunk, <i>Safari</i> 20 SG Insecticide will be absorbed through the bark and into the vascular system, and then transported throughout the tree. Speed of control will be dependent on tree size, tree health, environmental conditions and how actively pests are feeding. In actively transpiring trees, control may be evident within 1-3 weeks after application. Spray bark on root flare (buttress roots) and on trunk between soil surface and 4-5 feet above the soil
			surface. Adjust nozzle to uniformly distribute spray over the entire circumference of the tree trunk and buttress roots. Wet bark just to the point of saturation and run off onto soil.
			Apply ONLY with a low volume sprayer operated at less than 20 PSI to prevent tree damage, bounce back and drift of spray droplets. Time applications to coincide with when most vulnerable pest life stage is present on plants.
			Do not apply to wet bark, during rainfall or if rain is expected within 12 hours.
			Control may be less effective in trees with thick bark, and at times when trees are not actively growing or transpiring.
			For Mountain Pine Beetle: apply from 2 weeks before to 2 weeks after expected peak of adult flight activity.
Christmas Trees	Elongate Hemlock Scale	1.5 - 6.0 oz/gallon	For Christmas trees and ornamental trees less than 3" in diameter at soil
Ornamental trees with trunk diameter less than 3" at soil line		One gallon of spray solution will typically cover 325-425" of cumulative trunk diameter (0.3 - 0.4 fl oz per inch of trunk diameter) when applied to trunk between soil surface and 1 foot above soil surface.	line, spray trunk just to point of runoff between soil surface and 12" above soil surface.

One (1) level teaspoon contains 2.4 grams, and 1 cup (8 fl oz) contains 4.0 oz by weight of Safari 20 SG Insecticide

Restrictions:

Do not apply more than 2.7 lbs (0.54 lbs ai) per acre of nursery, forest or landscape per year.

PLEASE CONTACT VALENT U.S.A. CORPORATION AT 800-6-VALENT (682-5368) TO DETERMINE IF THIS USE IS REGISTERED IN YOUR STATE.

©2014 Valent U.S.A. Corporation

Safari is a registered trademark of Valent U.S.A. Corporation

Manufactured for Valent U.S.A. Corporation P.O. Box 8025 Walnut Creek, CA 94596-8025

Made in U.S.A.

2011-SAF-0012,R1 XCANY LMS 30Jun11