



# Cambistat<sup>®</sup>

## Application Guide

This application guide has been created to help you achieve successful results with Cambistat. We have provided step by step instructions. If you have any issues, concerns, or questions please call us at our toll free number. We are here to serve you.

### Before Applying Cambistat

Please read all the instructions covered in this application guide. As with any product, applying the proper dose is critical to your success. If you have any questions, please call our toll-free support line.

technical support  
**1-877-ARBORIST**  
 (1-877-272-6773)

### Proper Application Means Even and Complete Distribution

The purpose of and applying Cambistat is to achieve even and complete uptake and distribution in the tree. All of your application techniques must be a means of achieving this goal.

### About Cambistat

1. Different tree species have different sensitivities to Cambistat. There are six different dosage categories listed on the rate chart which is updated annually and available from your distributor or Rainbow.
2. Dosage is also determined by the size (DBH) of the tree. The larger the tree the more material you will need to use. These dosages are listed on the rate charts. You simply need to identify what size category your tree species is in, measure the size, and look at the rate chart for the proper dosage. You must also consider the crown size which is explained in "Dosage Considerations".
3. Cambistat is applied to the soil/roots interface by digging a small trench or slit in the soil. The use of non-toxic surfactants in optimal concentrations for soil conditions will help absorb the Cambistat solution.
4. Do not tank mix Cambistat with fertilizers or any other materials. You can apply fertilizers and other materials at the same time as long as they are not mixed together.



# You Should Know

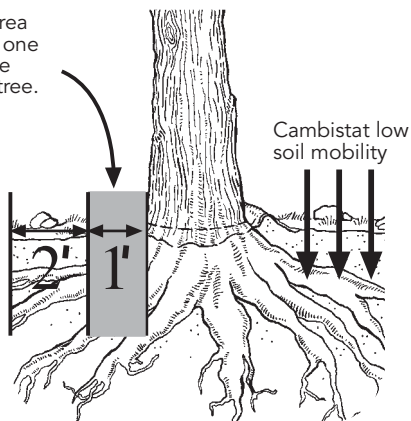
## Cambistat spillage on sidewalks and driveways

Cambistat sticks to the soil and once it dries, has little movement away from the application site. If you spill Cambistat on a sidewalk or driveway, it will stain if not removed immediately.

## Cambistat – movement in the soil

The Environmental Protection Agency (EPA) has very strict guidelines for products that are applied to the soil to ensure they will not contaminate the water supply. Results showed that Cambistat has minimal movement in the soil. Cambistat has the EPA signal word "CAUTION" on the label.

Treatment area extends out one foot from the base of the tree.



Plants within the treatment area will be regulated. Move any plants a minimum of 2 feet from treatment area to ensure they are not treated

# Timing of Application

## Time of Year

Cambistat can be applied anytime during the growing season as long as the ground is not frozen or saturated with water. Reapply Cambistat every 3 years.

If Cambistat is applied during the dormant season, it will be taken up at the beginning of the next growing season.

## Pruning Timing

Depending on the type of results required, prune Cambistat treated trees as follows:

### Optimum Growth Control

For optimum growth control, apply Cambistat 30 days prior to pruning up to time of pruning when the tree is actively growing.

### Natural Appearance

To allow some regrowth and a more natural look, apply Cambistat at the time of pruning to 30 days after. This may be appropriate for customers who are concerned about a more natural appearance of their trees.

**Note:** Transpirational pull delivers Cambistat to the growing points. Soil type, weather conditions and time of year all affect the speed at which Cambistat will take effect. Removing apical buds removes Cambistat from the tree.

### Deadwood pruning does not affect Cambistat performance.

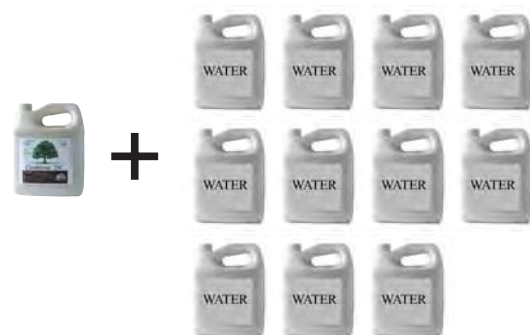
After 30-40 days if you prune off the growing points of treated trees, you will remove the accumulated reservoir of Cambistat and the tree will show less growth regulation.

# Mixing

## Mix 11 parts water with 1 part Cambistat

Examples –

- Mix 11 quarts of water with 1 quart of Cambistat to make 3 gallons of Ready-to-Use (RTU) solution.
- Mix 44 gallons of water with 4 gallons of Cambistat to make 48 gallons of Ready-to-Use (RTU) solution.



## General Mixing Instructions

1. Shake the Cambistat container thoroughly.
2. Add half of the total quantity of water.
3. If using a suspension agent, add to half the water and agitate.
4. Add Cambistat.
5. Add the remainder of the water to the Cambistat. Use this water to rinse the measuring container.
6. If using a nonionic organosilicone surfactant, add this next.
7. Agitate well after mixing. Continue to agitate during application.

## Additives

### Suspension Agent

Cambistat will settle out of water especially if a pre-mixed solution is not immediately used. A suspension agent will assist in keeping Cambistat suspended in water. Suspension agents are inexpensive and can be purchased from your local distributor. *Always follow label directions.*

### Surfactants

If applying mixture to compacted soils, high clay content soils, or other hard-to-wet soils, use a nonionic, organosilicone wetting agent (surfactant) to increase penetration of the soil. Surfactants can be purchased from your local distributor. *Always follow label directions.*

### De-foamer

If foaming becomes a problem because of water quality a de-foamer may be used. De-foamers are inexpensive and can be purchased from your local distributor. *Always follow label directions.*

# Dosing

It is important to apply the proper dose to the plant you are treating. Gather the following information:

1. Determine the plant species to be treated and the rate category it belongs to. If the species is not on the rate chart contact Rainbow Treecare Scientific Advancements for more information.
2. Measure the diameter of the tree at breast height (DBH = 4'6" above ground). If the tree splits into 2 or more stems measure the tree at its smallest circumference point (fig.2).
3. Use the rate chart to determine the total dosage for the plant to be treated. There are 2 rate charts - one for single tree treatments (Individual Dose Rate Card) and one for multiple tree treatments (Soil-Injection Rate Card).
4. It is important to use at least the minimum amount of water (11 parts water to 1 part Cambistat). Additional water may be used to achieve even distribution as long as the total dosage of Cambistat concentrate is not changed.

## Determining DBH (diameter at breast height)

### Multiple Trunks

(for application procedure see fig. 7 on Soil Injection page)

#### Where to measure

When applying Cambistat to trees with multiple trunks or trees close together measure at standard DBH height (4'6"). Treat each tree individually (fig. 1), and make rate reductions due to the shared canopies (see fig.4 and 5 below).

### Trunk Split Below DBH

#### Where to measure

For trees that are split below the standard DBH height, determine DBH rate by measuring at the narrowest point between root flare and the split (fig.2).

measure here

**note:** Be sure measuring tape is perpendicular to vertical direction of tree trunk.

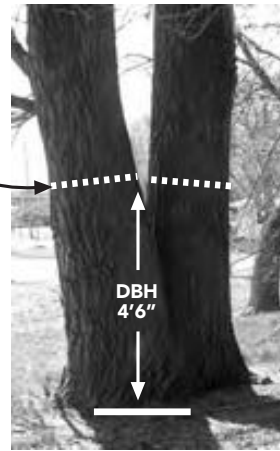


fig.1

measure here



fig.2

## Crown Considerations

### Canopy Reduction

#### Determining the Relationship between Crown Size and Diameter

- When applying Cambistat, you need to look at the canopy of the tree and compare it to a "normal" crown for that trunk diameter. While not a perfect system, it will help you apply a more accurate dose.
- If the tree is missing large branches from storms, over pruning, or canopy suppression, then estimate the percentage of crown missing and subtract this percentage from your dosage (fig.3).

- Additional rate reductions need to be made when treating trees with shared canopies (see fig.4 and 5).

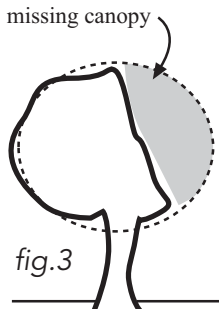


fig.3

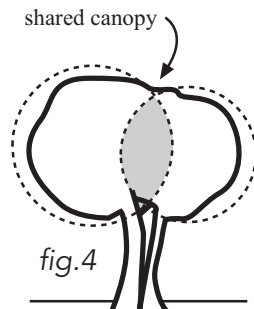


fig.4

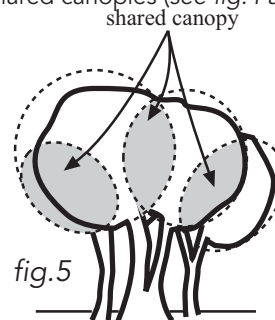


fig.5

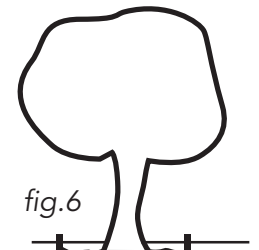


fig.6

restricted roots

### Trees with Confined or Compromised Root Systems

#### Determining the Relationship between Crown Size and Diameter

Trees in sidewalks boxes, above-ground planters, and new transplants may draw Cambistat from the treatment area in a higher proportion than a tree with a full root system. **Reduce the dosage rate by 25% or more** (see fig.6).

## Precautions When Using Cambistat on Stressed or Injured Trees

### Analyze the situation and reduce the dose

Trees that show significant stress and are in rapid decline may not be good candidates for treatment. Trees displaying mild decline may be considered for treatment, but these trees should be treated differently than their full canopied counterparts. A full dose of Cambistat applied to a tree with a small, thin, or declining canopy may result in significantly smaller leaves or a shutdown of growth in portions of the canopy. To avoid these negative consequences use the following guidelines:

- Dosage rates for trees that have lost canopy from stress, decline, storm damage, pruning, or suppression must be reduced to minimize the risk of over-regulation.
- Estimate the percentage of crown that is missing and subtract that percentage from your dosage.
- For stressed trees, consider that additional canopy may decline before the treatment takes hold, so you may need to reduce the dose by more than what is presently missing.

Also recognize that Cambistat should be used in combination with other sound cultural practices to increase the health of the tree. When used alone, Cambistat may not provide the tree health results your client is expecting. Other measures such as mulching, soil rejuvenation, watering, insect and disease treatments, and pruning may be necessary, and in some cases a greater priority.

### Trees With Confined or Compromised Root Systems

Trees in sidewalks boxes, above-ground planters, and new transplants may draw Cambistat from the treatment area in a higher proportion than a tree with a full root system. **Automatically reduce the dosage rate by 25% or more.**

### Proper Application

It is very important to apply Cambistat at the rate shown on the rate card. Higher application rates may result in excessive growth reduction, reduced leaf size, and compromised tree aesthetics.

Trees in rate categories A, B, and C are the most sensitive to Cambistat and have a smaller margin of error for application rates than trees in categories D, E, and F. When in doubt for sensitive trees, use less Cambistat instead of more.

### What to Do if a Tree Becomes Over-Regulated

If you observe over-regulation, remove the soil into which the Cambistat was applied at the base of the tree. This will prevent additional Cambistat from being taken up. Trees will eventually grow out of their over-regulated condition during the following seasons.

# Basal Drench Application

## Step 1 – Inspect the Tree and Soil

- If the tree has severe trunk injury or significant girdling roots do not treat.
- If the soil is saturated with water, wait until it dries out before application.

## Step 2 – Determine Dosage



- Accurately identify the species. Determine the Rate Category A – F.
- Measure the size using a DBH tape or a standard tape measure. If using a standard tape measure, divide the total inches by 3.14.
- Find your application volume on the Individual Dose Rate Card for that category and plant size.
- Make adjustment based on crown size (see dosing considerations).
- Write down the dosage.

## Step 3 – Excavate Trench Around Base of the Tree



- Excavate a small trench that is a minimum of 4 inches deep and 3 inches wide.
- Go deeper if there is a potential of Cambistat solution moving to other plants.
- Go deeper if the soil is a heavy clay or is compacted.
- Keep the excavated soil on the outside of the trench.

## Step 4 – Mix and Pour Cambistat Solution Evenly Into Trench



- Use your graduated cylinder to measure out the exact amount of Cambistat solution you will need.
- Transfer the Cambistat solution to your application container.
- Apply the Cambistat evenly around the whole tree – be sure not to pour too fast.
- After the Cambistat has been **completely absorbed** into the soil, fill and firmly pack soil down in trench to prevent run off.

## Step 5 – Record and Keep Application Information

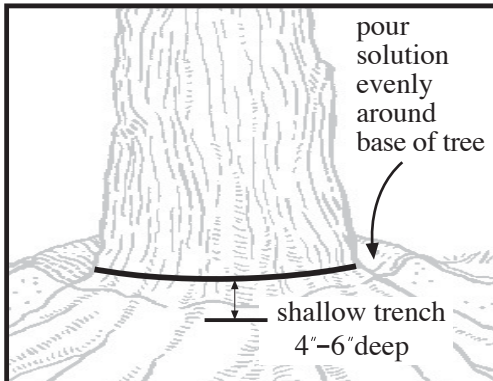
- Keep a record of the following information:
  1. Tree species
  2. Tree size
  3. Dosage used – include any additives and water amount
  4. Any noticeable tree issues or problems
  5. Soil type and condition – ex. compacted, wet, dry, etc.
  6. Tag the tree with basic application information
  7. Tree location - consider GPS

# Soil Injection Application

**Follow Basal Drench application methods for determining dose.**

## Soil-Injecting Cambistat

- Place probe into the soil as close to the tree as possible without hitting the root tissue.
- Use between 80 - 120 psi
- Begin applying the proper dose for that injection site.
- If Cambistat begins to move up and out of the hole, stop application at that site and continue application to the side. Reduce the pressure.
- Evenly apply the Cambistat around the plant until the application quantity is complete.

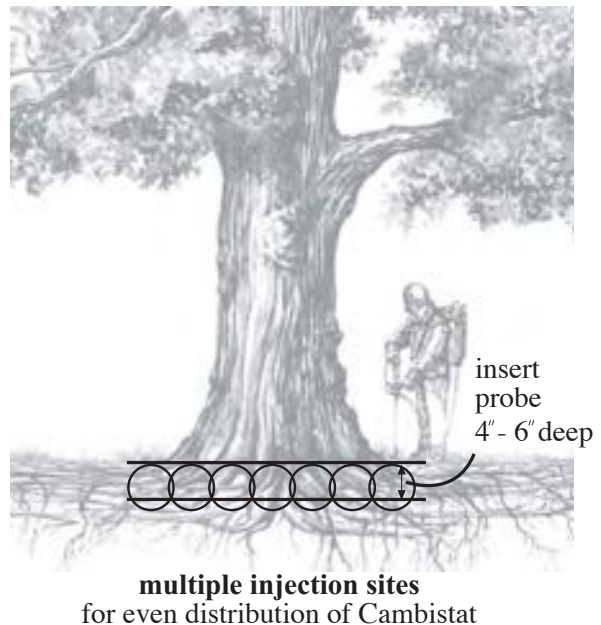


## CAUTION

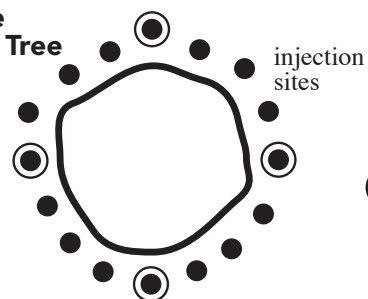
Care must be taken when applying on slopes. Product can easily move down slopes and cause regulation to non-target plants. Be aware of surrounding vegetation that will become regulated if its root system comes in contact with Cambistat.

## Equipment List

- **DBH Tape**
- **Dosage Rate Card**
- **Note Pad/Pen** for record keeping
- **Reservoir Tank** – 3 to 5 gallon container for ready-to-use Cambistat / water mixture.
- **Graduated Measuring Units** – We recommend two sizes for different dosing volumes; you should have 250-ml and 1000-ml graduated cylinders.
- **Pouring Unit** – 2 quarts or larger with a slow flow top. Even coverage around tree is crucial for good results.
- **Protection Tray** – Large enough to prevent spillage while transferring liquid.
- **Excavation Equipment** – To create shallow furrow around the base of the tree. A small shovel, pointed hoe, or a Rainbow ergonomic trowel works well.

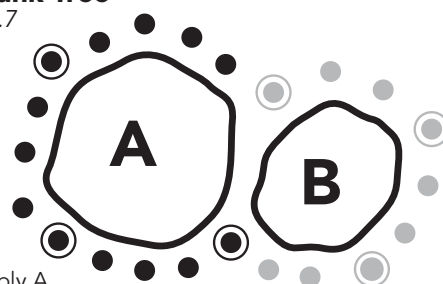


**Single Trunk Tree**  
fig.6



Inject these locations first then evenly distribute the remaining solution

**Multiple Trunk Tree**  
fig.7



Apply A tree dose to A tree side only

Apply B tree dose to B tree side only

## Tree Reference List

Species	Category
Acacia	F
Ailanthus	D
Alder	F
Anaqua	E
Arborvitae	F
Ash	F
Aspen	F
Australian Bottle	C
Australian Pine/Casaurina	A
Bastwood-American	A
Baytree	E
Beech	E
Birch	F
Black Gum/Tupelo	B
Bottlebrush	F
Boxelder	A
Buckeye	D
Buttonwood	F
California Pepper	C
Camphor	E
Catalpa	E
Cedar - Deodora	E
Cedar - all others	F
Cherry - black	F
Cherry - laurel	E
Cherry - ornamental	E
Chinaberry	E
Chinese Pistache	E
Cottonwood *	F
Crabapple	F
Crape Myrtle	B
Cypress - Leyland	F
Cypress - all others	B
Ebony - Texas	F
Elm - Cedar	B
Elm - Chinese/Lacebark	A
Elm - Siberian	A
Elm - all others	B
Eucalyptus	F
Ficus	F
Fir - all species	F
Ginkgo	F
Gumbo Limbo	F
Hackberry	F
Hawthorn	C
Hemlock	F
Hickory	E
Holly - American	E
Holly - Yaupon	B
Hong Kong Orchid Tree	C
Horsechestnut	C
Huisache	E
Ironwood/Hornbeam	D
Jacaranda	F
Juniper	F
Katsura	A
Larch	F

Species	Category
Laurel	F
Lilac - Japanese	E
Linden	A
Locust - Black	F
Locust - Honey	E
Lombardy Poplar	F
Lysiloma	F
Magnolia	F
Mahogany	F
Maple - Amur	B
Maple - Bigleaf	D
Maple - Japanese (Kawano) **	A
Maple - Norway	B
Maple - Red	B
Maple - Silver	D
Maple - Sugar	B
Melaleuca	F
Mesquite	F
Mimosa	E
Mountain Ash	B
Mulberry	F
Oak - Black	E
Oak - Blackjack	E
Oak - Bur	D
Oak - Laurel	F
Oak - Live (<10" DBH)	B
Oak - Live (>10" DBH)	E
Oak - Pin	E
Oak - Post	E
Oak - Red	E
Oak - Sand Shinnery	E
Oak - Scarlet	E
Oak - Shumard	E
Oak - Valley	F
Oak - Water	E
Oak - White	D
Oak - Willow	E
Oleander	C
Olive - Black	F
Olive - European	E
Olive - Russian	E
Orchid Tree - Hong Kong	C
Osage Orange	F
Palms	F
Paloverde	E
Paulownia	E
Pear - Ornamental	F
Pecan	E
Persimmon	C
Photinia	E
Pines *	F
Plum - Ornamental	E
Poinciana	F
Poplar - Lombardy	F
Raintree - Golden	F
Redcedar - Eastern	F
Redwood	F

Species	Category
Rosewood/Tipuana	C
Saltcedar/Tamarisk	F
Sassafras	E
Sea Grape	E
Soapberry	E
Spruce *	F
Sugarberry/Southern Hackberry	F
Sumac -African	E
Sycamore	F
Tabebuia	F
Tallow - Chinese	F
Tamarisk/Saltcedar	F
Tepeguaje	E
Tulip/Yellow Poplar	F
Tupelo/Black Gum	B
Walnut	E
Waxmyrtle - Pacific	F
Willow	F
Xylocma	C
Yellow Poplar/ Tulip	F
Yew	F
Zelkova	B

\*  
These species typically show less growth reduction compared to other species.

\*\*  
Japanese Maple can be easily over regulated, field reports suggest 1/2 A rate may be more appropriate.



Technical Support  
1-877-272-6747

# Individual Dose Cambistat® Rate Card

This rate card tells you how much Cambistat and water is needed to treat an individual tree. The ratio is 11 parts water to 1 part Cambistat.

Tree Size DBH (Diameter at Breast Height)

	Category A		Category B		Category C		Category D		Category E		Category F		
	ml Cambistat	ml water	ml Cambistat	ml water	ml Cambistat	ml water	ml Cambistat	ml water	ml Cambistat	ml water	ml Cambistat	ml water	
4"	17	185	23	250	42	460	46	510	50	550	67	735	4"
5"	21	230	28	310	52	575	57	630	63	690	83	920	5"
6"	25	275	33	370	63	690	69	760	75	825	100	1,100	6"
7"	44	480	58	645	73	805	80	885	88	965	117	1,285	7"
8"	50	550	67	735	83	920	92	1,000	100	1,100	133	1,470	8"
9"	56	620	75	825	94	1,030	103	1,135	113	1,240	150	1,650	9"
10"	63	690	83	920	104	1,145	115	1,260	125	1,375	167	1,835	10"
11"	69	755	92	1,010	115	1,260	126	1,390	138	1,515	183	2,020	11"
12"	75	825	100	1,100	125	1,375	138	1,515	150	1,650	200	2,200	12"
13"	81	900	108	1,190	135	1,490	149	1,640	163	1,790	217	2,385	13"
14"	88	965	117	1,285	146	1,605	160	1,765	175	1,925	233	2,570	14"
15"	94	1,030	125	1,375	156	1,720	172	1,895	188	2,065	250	2,750	15"
16"	100	1,100	133	1,470	167	1,835	183	2,020	200	2,200	267	2,935	16"
17"	106	1,170	142	1,560	177	1,950	195	2,145	213	2,340	283	3,120	17"
18"	113	1,240	150	1,650	188	2,065	206	2,270	225	2,475	300	3,300	18"
19"	119	1,310	158	1,745	198	2,177	218	2,395	238	2,615	317	3,485	19"
20"	125	1,375	167	1,835	208	2,290	229	2,520	250	2,750	333	3,670	20"
21"	131	1,445	175	1,925	219	2,410	241	2,650	263	2,890	350	3,850	21"
22"	138	1,515	183	2,020	229	2,520	252	2,775	275	3,025	367	4,035	22"
23"	144	1,580	192	2,110	240	2,635	264	2,900	288	3,165	383	4,220	23"
24"	150	1,650	200	2,200	250	2,750	275	3,025	300	3,300	400	4,400	24"
25"	156	1,720	208	2,295	260	2,865	287	3,150	313	3,440	417	4,585	25"
26"	162	1,787	217	2,385	271	2,980	298	3,277	325	3,575	433	4,765	26"
27"	169	1,855	225	2,475	281	3,095	310	3,400	338	3,715	450	4,950	27"
28"	175	1,925	233	2,570	292	3,210	321	3,530	350	3,850	467	5,135	28"
29"	181	1,995	242	2,660	302	3,320	332	3,660	363	3,990	483	5,320	29"
30"	188	2,060	250	2,750	313	3,440	344	3,780	375	4,125	500	5,500	30"
31"	194	2,130	258	2,840	323	3,550	355	3,910	388	4,265	517	5,685	31"
32"	200	2,200	267	2,930	333	3,670	367	4,035	400	4,400	533	5,870	32"
33"	206	2,270	275	3,025	345	3,780	378	4,160	413	4,540	550	6,050	33"
34"	213	2,340	283	3,120	354	3,900	390	4,285	425	4,675	567	6,235	34"
35"	219	2,405	292	3,210	365	4,010	400	4,410	438	4,810	583	6,415	35"
36"	225	2,475	300	3,300	375	4,125	413	4,540	450	4,950	600	6,600	36"
37"	231	2,545	308	3,390	386	4,240	424	4,664	463	5,090	617	6,780	37"
38"	238	2,610	317	3,480	396	4,355	435	4,790	475	5,225	633	6,970	38"
39"	244	2,680	325	3,575	406	4,470	447	4,915	488	5,365	650	7,150	39"
40"	250	2,750	333	3,670	417	4,585	458	5,040	500	5,500	667	7,335	40"
41"	256	2,820	342	3,760	427	4,700	470	5,168	513	5,640	683	7,520	41"
42"	263	2,890	350	3,850	438	4,815	481	5,295	525	5,775	700	7,700	42"
43"	269	2,955	358	3,940	448	4,930	493	5,420	538	5,915	717	7,885	43"
44"	275	3,025	367	4,035	458	5,040	504	5,545	550	6,050	733	8,065	44"
45"	281	3,095	375	4,125	469	5,155	516	5,670	563	6,190	750	8,250	45"
46"	288	3,160	383	4,220	479	5,270	527	5,800	575	6,325	767	8,435	46"
47"	294	3,230	392	4,310	490	5,385	539	5,924	588	6,463	783	8,615	47"
48"	300	3,300	400	4,400	500	5,500	550	6,050	600	6,600	800	8,800	48"
49"	306	3,370	408	4,490	510	5,615	560	6,175	613	6,740	817	8,985	49"
50"	313	3,440	417	4,585	521	5,730	573	6,300	625	6,875	833	9,167	50"

We do not recommend using these rates with other growth regulator products.

technical support **1-877-ARBORIST**



# Soil Injection Cambistat Rate Card

Mix bulk, ready-to-use Cambistat solution at ratio of 11 parts water to 1 part Cambistat

	Category <b>A</b> ml dose / # of holes	Category <b>B</b> ml dose / # of holes	Category <b>C</b> ml dose / # of holes	Category <b>D</b> ml dose / # of holes	Category <b>E</b> ml dose / # of holes	Category <b>F</b> ml dose / # of holes	
4"	BD*	BD*	BD*	BD*	BD*	800 / 3.2	4"
5"	BD*	BD*	BD*	BD*	750 / 3	1000 / 4	5"
6"	BD*	BD*	750 / 3	825 / 3.3	900 / 3.6	1200 / 4.8	6"
7"	BD*	BD*	875 / 3.5	963 / 3.9	1050 / 4.2	1400 / 5.6	7"
8"	BD*	800 / 3.2	1000 / 4	1100 / 4.4	1200 / 4.8	1600 / 6.4	8"
9"	BD*	900 / 3.6	1125 / 4.5	1238 / 5	1350 / 5.4	1800 / 7.2	9"
10"	750 / 3	1000 / 4	1250 / 5	1375 / 5.5	1500 / 6	2000 / 8	10"
11"	825 / 3.3	1100 / 4.4	1375 / 5.5	1513 / 6.1	1650 / 6.6	2200 / 8.8	11"
12"	900 / 3.6	1200 / 4.8	1500 / 6	1650 / 6.6	1800 / 7.2	2400 / 9.6	12"
13"	975 / 3.9	1300 / 5.2	1625 / 6.5	1788 / 7.2	1950 / 7.8	2600 / 10.4	13"
14"	1050 / 4.2	1400 / 5.6	1750 / 7	1925 / 7.7	2100 / 8.4	2800 / 11.2	14"
15"	1125 / 4.5	1500 / 6	1875 / 7.5	2063 / 8.3	2250 / 9	3000 / 12	15"
16"	1200 / 4.8	1600 / 6.4	2000 / 8	2200 / 8.8	2400 / 9.6	3200 / 12.8	16"
17"	1275 / 5.1	1700 / 6.8	2125 / 8.5	2338 / 9.4	2550 / 10.2	3400 / 13.6	17"
18"	1350 / 5.4	1800 / 7.2	2250 / 9	2475 / 9.9	2700 / 10.8	3600 / 14.4	18"
19"	1425 / 5.7	1900 / 7.6	2375 / 9.5	2613 / 10.5	2850 / 11.4	3800 / 15.2	19"
20"	1500 / 6	2000 / 8	2500 / 10	2750 / 11	3000 / 12	4000 / 16	20"
21"	1575 / 6.3	2100 / 8.4	2625 / 10.5	2888 / 11.6	3150 / 12.6	4200 / 16.8	21"
22"	1650 / 6.6	2200 / 8.8	2750 / 11	3025 / 12.1	3300 / 13.2	4400 / 17.6	22"
23"	1725 / 6.9	2300 / 9.2	2875 / 11.5	3163 / 12.7	3450 / 13.8	4600 / 18.4	23"
24"	1800 / 7.2	2400 / 9.6	3000 / 12	3300 / 13.2	3600 / 14.4	4800 / 19.2	24"
25"	1875 / 7.5	2500 / 10	3125 / 12.5	3438 / 13.8	3750 / 15	5000 / 20	25"
26"	1950 / 7.8	2600 / 10.4	3250 / 13	3575 / 14.3	3900 / 15.6	5200 / 20.8	26"
27"	2025 / 8.1	2700 / 10.8	3375 / 13.5	3713 / 14.9	4050 / 16.2	5400 / 21.6	27"
28"	2100 / 8.4	2800 / 11.2	3500 / 14	3850 / 15.4	4200 / 16.8	5600 / 22.4	28"
29"	2175 / 8.7	2900 / 11.6	3625 / 14.5	3988 / 16	4350 / 17.4	5800 / 23.2	29"
30"	2250 / 9	3000 / 12	3750 / 15	4125 / 16.5	4500 / 18	6000 / 24	30"
31"	2325 / 9.3	3100 / 12.4	3875 / 15.5	4263 / 17.1	4650 / 18.6	6200 / 24.8	31"
32"	2400 / 9.6	3200 / 12.8	4000 / 16	4400 / 17.6	4800 / 19.2	6400 / 25.6	32"
33"	2475 / 9.9	3300 / 13.2	4125 / 16.5	4538 / 18.2	4950 / 19.8	6600 / 26.4	33"
34"	2550 / 10.2	3400 / 13.6	4250 / 17	4675 / 18.7	5100 / 20.4	6800 / 27.2	34"
35"	2625 / 10.5	3500 / 14	4375 / 17.5	4813 / 19.3	5250 / 21	7000 / 28	35"
36"	2700 / 10.8	3600 / 14.4	4500 / 18	4950 / 19.8	5400 / 21.6	7200 / 28.8	36"
37"	2775 / 11.1	3700 / 14.8	4625 / 18.5	5088 / 20.4	5550 / 22.2	7400 / 29.6	37"
38"	2850 / 11.4	3800 / 15.2	4750 / 19	5225 / 20.9	5700 / 22.8	7600 / 30.4	38"
39"	2925 / 11.7	3900 / 15.6	4875 / 19.5	5363 / 21.5	5850 / 23.4	7800 / 31.2	39"
40"	3000 / 12	4000 / 16	5000 / 20	5500 / 22	6000 / 24	8000 / 32	40"
41"	3075 / 12.3	4100 / 16.4	5125 / 20.5	5638 / 22.6	6150 / 24.6	8200 / 32.8	41"
42"	3150 / 12.6	4200 / 16.8	5250 / 21	5775 / 23.1	6300 / 25.2	8400 / 33.6	42"
43"	3225 / 12.9	4300 / 17.2	5375 / 21.5	5913 / 23.7	6450 / 25.8	8600 / 34.4	43"
44"	3300 / 13.2	4400 / 17.6	5500 / 22	6050 / 24.2	6600 / 26.4	8800 / 35.2	44"
45"	3375 / 13.5	4500 / 18	5625 / 22.5	6188 / 24.8	6750 / 27	9000 / 36	45"
46"	3450 / 13.8	4600 / 18.4	5750 / 23	6325 / 25.3	6900 / 27.6	9200 / 36.8	46"
47"	3525 / 14.1	4700 / 18.8	5875 / 23.5	6463 / 25.9	7050 / 28.2	9400 / 37.6	47"
48"	3600 / 14.4	4800 / 19.2	6000 / 24	6600 / 26.4	7200 / 28.8	9600 / 38.4	48"
49"	3675 / 14.7	4900 / 19.6	6125 / 24.5	6738 / 27	7350 / 29.4	9800 / 39.2	49"
50"	3750 / 15	5000 / 20	6250 / 25	6875 / 27.5	7500 / 30	10000 / 40	50"

This chart is based on **250ml** delivered per hole

Partial hole volumes

.1	25ml
.2	50ml
.3	75ml
.4	100ml
.5	125ml
.6	150ml
.7	175ml
.8	200ml
.9	225ml

Tree Size DBH (Diameter At Breast Height)

\*Use the basal drench application method to apply Cambistat to small DBH trees. These trees are very sensitive and rates need to be very accurate.





# Cambistat<sup>®</sup>

## Tree Growth Regulator

Available in:

1 gallons  
(3785ml)

2 Liters  
(2000ml)

### KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See Side/Back Panel for Additional Precautionary Statements, First Aid and Directions for Use

Cambistat<sup>™</sup> is a plant growth regulator that slows the vegetative growth of plants by inhibiting gibberellin biosynthesis. Cambistat<sup>™</sup> is designed to gently and predictably slow the growth of trees. A single application provides a long lasting reduction of vegetative growth, effectively extending the trimming cycle of trees and reducing the amount of woody growth that must be removed. In addition, use of Cambistat<sup>™</sup> may cause other plant growth effects that are beneficial for trees such as increased root density, improved drought and heat resistance, and higher tolerance to insects and diseases. Cambistat will also benefit trees that are too large for their growing site and increase the longevity of trees growing in stressful environments.

#### Active Ingredient

Pacllobutrazol (R*, R*)-(?)-?-[4-chlorophenyl) Methyl]-?-(1,1-dimethylethyl)- 1H-1,2,4-triazole-1-ethanol .....	22.3%
Other Ingredients.....	77.7%
Total	100%

EPA Reg. No. 74779-3

EPA Est. No. 63416-MN-001

Distributed by:



**Rainbow Treecare Scientific Advancements**

11571 K-Tel Dr

Minnetonka, MN 55343

1-877-272-6747

www.treescience.com

#### FIRST AID:

<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or a doctor.</li> <li>• Do not give anything by mouth to an unconscious person</li> </ul>
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call poison control center or doctor immediately for treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call poison control center or doctor immediately for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
<b>HOT LINE NUMBER</b>	
For 24 hour medical emergency assistance (human or animal), or chemical emergency assistance (spill, leak or accident). <b>Call CHEMTREC at 1-800-424-9300.</b>	
<b>NOTES TO PHYSICIAN</b>	
No specific antidote is available. Treat the patient symptomatically.	

#### PRECAUTIONARY STATEMENT

##### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes, or clothing.

##### Personal Protective Equipment (PPE)

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

##### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any water proof material
- Shoes plus socks

Applicators and other handlers are also recommended to wear protective eyewear.

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

Do not apply directly to water, 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 wash water.

Physical or Chemical Hazards

Do not use or store near heat or open flame.

### DIRECTIONS FOR USE

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

FAILURE TO FOLLOW THE USE DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR LESS THAN OPTIMAL GROWTH REDUCTION.

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.

### General Information

Cambistat™ is a plant growth regulator that slows the vegetative growth of plants by inhibiting gibberellin biosynthesis. Cambistat™ is designed to gently and predictably slow the growth of trees. A single application provides a long lasting reduction of vegetative growth, effectively extending the trimming cycle of trees and reducing the amount of woody growth that must be removed. In addition, use of Cambistat™ may cause other plant growth effects that are beneficial for trees such as increased root density, improved drought and heat resistance, and higher tolerance to insects and diseases. Cambistat will also benefit trees that are too large for their growing site and increase the longevity of trees growing in stressful environments. Cambistat™ may be applied by soil injection or basal soil drench.

Cambistat™ may be used on utility rights-of-way, residential areas, urban areas, and other non-crop areas.

### Indications of Tree Response:

Cambistat™ is readily absorbed by plant roots and is translocated to the actively growing points. Initially, an intense greening of the foliage may occur in response to Cambistat™ treatment. Long-term effects include: shortened internodes and smaller, thicker leaves. Visible results may be seen in as little as 2 months but measurable growth reduction may take as long as a year to occur.

### General Use Precautions

- Apply at recommended rates and follow safety precautions.
- Non-fruit or nut bearing trees that are not specified on this label may be treated if all other label directions are followed.
- The degree and duration of Cambistat™ applications can be affected by local soil and environmental conditions. Carefully read and follow label instructions to ensure effectiveness.
- Retreat every 3 years or wait until the effects from the previous application subside.
- Heavily compacted soils around trees may need to be vertical mulched, aerated or receive other remedial soil compaction treatments for Cambistat™ to effectively promote root growth.

### General Use Precautions -continued

- Localized stunting or injury of turfgrass or other non-target plants immediately adjacent to the treatment site may occur if Cambistat flows off of the application site.
- Avoid Cambistat™ basal drench applications on inclines and other areas where treated soil is likely to be washed away from the base of the tree by rainfall or irrigation.
- Shrubs and/or herbaceous ornamentals next to treated trees may be affected if their roots extend into the treatment zone.
- Do not treat sugar maple trees or any other trees if they could be or will be tapped for sugar.
- Do not treat fruit or nut trees that will be harvested within one year.
- Do not treat severely stressed trees or trees in rapid decline.
- Do not apply Cambistat™ through any irrigation system.

### DOSING

It is important to apply the proper dose to the tree you are treating. Use the following steps to determine the required dose:

- 1) Correctly identify the tree species.
- 2) Measure tree diameter at breast height (DBH). (See determining DBH)
- 3) Locate the correct dosage rate category for your species (See tables 2 and 3).
- 4) Locate the amount of material to use based on the category and DBH of your species (See tables 4 and 5).
- 5) Determine if any rate reductions are necessary (See Dosage Reduction Considerations).

### DETERMINING DBH

**Single Stem:** Measure the standard DBH of the tree at 4' 6" above the soil.

**Multiple Individual Trees Growing in Close Proximity:** For trees that have grown close together, measure the DBH of each stem and treat each tree individually. You may need to make rate reductions due to the overlapping canopies (See Dosage Reduction Considerations). Also, because of close proximity of trees, it may be necessary to apply Cambistat to outer perimeter of clumped trees.

**Multi-stem Split Below DBH:** For a tree that has multiple stems splitting below DBH, measure the tree at the narrowest point between the root flare and the split.

**Stem Clusters:** For trees that are grown too close together to be treated as individual trees, measure the DBH of each stem and add the measurements together. You may need to make rate reductions due to overlapping canopies (see Dosage Reduction Considerations). Also, because of close proximity of trees, it may be necessary to apply Cambistat to outer perimeter of clumped trees.

**Tree Splits at DBH:** For a tree that splits into two or more stems at DBH, measure and add the diameter of the stems and measure the narrowest point below the split. Take the average of these values.

### DOSAGE REDUCTION CONSIDERATIONS

**Canopy Missing:** Look at the canopy of the tree and compare it to a "normal" canopy for that trunk diameter. For example, if a tree is missing large branches from storm damage or utility line clearance pruning it is necessary to estimate the percentage of canopy missing and subtract this percentage from the dosage amount. i.e. subtract 30% from dosage if 30% is missing from the canopy.

**Canopy Suppression:** Trees growing in close proximity to other trees, multi-stemmed trees, and trees growing in clusters may have overlapping canopies. Your judgment is required to compare the canopies of these trees to the "normal" canopy for trees with similar trunk diameter. It may be necessary to reduce the dosage amount based on the percent of suppression and canopy overlap

## DOSAGE REDUCTION CONSIDERATIONS - continued

**Stressed or Declining Trees:** Dosage rates for trees that have lost canopy from construction damage, storm damage, insects, disease, girdling roots and/or other types of stress must be reduced to minimize the risk of over-regulation. A full dose of Cambistat applied to a tree with small, thin, or declining canopy may result in smaller leaves and a sparse canopy.

- Reduce the dosage rate on highly stressed trees by 25% or more
- Trees that show significant stress and are in rapid decline are NOT good candidates for treatment.
- For stressed trees, consider that additional canopy may decline before treatment response begins so you may need to reduce the dose by more than what is presently missing.

**Trees with Confined or Compromised Root Systems:** Trees in sidewalk boxes, above ground planters, and new transplants may absorb Cambistat from the treatment area in a higher proportion than a tree with a full root system. Reduce the dosage rate by 25% or more.

## MIXING PROCEDURE

Dilute 1 part Cambistat with 11 parts water. To make a large Ready to use solution, combine 1 quart of Cambistat with 11 quarts of water to make 3 gallons of solution. See table 1 for additional examples. When mixing large amounts of Cambistat, mix only the amount that will be used within that day. Cambistat is best applied with equipment that has constant agitation.

**Table 1. Examples of the volumes of Cambistat and Water needed to make Ready-to-Use solution.**

Volume of Cambistat	Volume of Water	Makes
1 qt	11 quarts	3 gallons
1 gallon	11 gallons	12 gallons
4 gallons	44 gallons	48 gallons

If applying mixture to compacted soils, high clay content soils, or other hard-to-wet soils, use a nonionic, organosilicone wetting agent (surfactant) to increase penetration of the soil. Mix approximately ½ ounce surfactant per 3 gallons or 1 pint surfactant per 100 gallons. Follow all label directions and precautions on the surfactant product label.

## APPLICATION METHODS

### Soil Injection

Inject the Ready to Use solution approximately 2-6 inches deep at 50-200 psi using the volumes in Table 5. Orient injection orifices to release the diluted product horizontally at the point of injection. Divide the required dose evenly among injection sites spaced as uniformly as possible around the base of the tree. Position the injection sites to release the diluted Cambistat™ as close as possible to the point of contact between the soil and the tree beneath the soil so that the solution is readily absorbed by the tree (Figure 1). Locate injection sites next to buttress roots (Figure 1). For trees less than 6 inches DBH, use at least 4 injection sites evenly spaced around the tree.

### Soil Basal Drench

Carefully dig a shallow furrow 2 – 6 inches deep around the base of the tree. If treating an individual tree, use the volumes determined in Table 4. If treating multiple trees, a Ready-To-Use solution can be created by using the volumes in Table 5. Carefully pour the Ready-To-Use solution evenly around the tree into the furrow using an applicator that provides a controlled flow. Make the application at the point of contact between the soil and the tree trunk (Figure 2). After the diluted product has been absorbed by the soil, refill the furrow with untreated soil. Note: If making an application on a slope, a soil dam may be created to contain the application within the furrow.

## APPLICATION TIMING

For a more manicured look, apply Cambistat™ to trees 30 to 180 days before they are pruned. To allow some regrowth and a more natural look, apply Cambistat™ at the time of pruning.

Soil applications can be made throughout the year, except when the soil is frozen or saturated with water. Note: When applied to the soil, Cambistat™ is absorbed by tree roots and translocated to the growing points (sub-apical meristems) in response to evaporative water loss (transpiration). If applications are made after leaf drop, uptake of Cambistat™ will not occur until development of new leaves and resumption of transpiration.

**For questions, contact Rainbow Treecare Scientific Advancements at 877-272-6747.**

**Table 2:** LANDSCAPE APPLICATION Tree reference list and dosage rates

Species	Category	Species	Category	Species	Category
Acacia	F	Hickory	E	Oak - Willow	E
Ailanthus	D	Holly - American	E	Oleander	C
Alder	F	Holly - Yaupon	B	Olive - Black	F
Anaqua	E	Horsechestnut	C	Olive - European	E
Arborvitae	F	Huisache	E	Olive - Russian	E
Ash	F	Ironwood / Hornbeam	D	Orchid Tree - Hong Kong	C
Aspen	F	Jacaranda	F	Osage Orange	F
Australian Bottle	C	Japanese Tree Lilac	E	Palms	F
Australian Pine	A	Juniper	F	Paloverde	E
Banyan - Ficus	F	Katsura - Japanese	A	Paulownia	E
Basswood, American	A	Larch	F	Pear - Ornamental	F
Baytree	E	Laurel	F	Pecan	E
Beech	E	Leyland Cypress	F	Persimmon	C
Birch	F	Linden	A	Photinia	E
Black Gum / Tupelo	B	Locust - Black	F	Pines*	F
Black Olive	F	Locust - Honey	E	Plum - Ornamental	E
Bottlebrush	F	Lombardy Poplar	F	Poinciana	F
Boxelder	A	Lysiloma	F	Raintree - Golden	F
Buckeye	D	Magnolia	F	Redcedar - Eastern	F
Buttonwood	F	Mahogany	F	Redwood	F
California Pepper	C	Maple - Amur	B	Rosewood / Tipuana	C
Camphor	E	Maple - Bigleaf	D	Russian Olive	E
Catalpa	E	Maple - Japanese**	A	Saltcedar	F
Cedar – Deodora	E	Maple - Norway	B	Sassafrass	E
Cedar - all others	F	Maple - Red	B	Sea Grape	E
Cherry - Black	F	Maple - Silver	D	Soapberry	E
Cherry - Ornamental	E	Maple - Sugar	B	Spruce*	F
Cherry - Laurel	E	Melaleuca	F	Sugarberry /Southern Hackberry	F
Chinaberry	E	Mesquite	F	Sumac - African	E
Chinese Pistache	E	Mimosa	E	Sycamore	F
Cottonwood*	F	Mountain Ash	B	Tabebuia	F
Crabapple	F	Mulberry	F	Tallow - Chinese Tallowwood	F
Crape Myrtle	B	Oak – Black	E	Tamarisk	F
Cypress	B	Oak – Blackjack	E	Tepeguaje	E
Ebony - Texas	F	Oak – Bur	D	Tulip / Yellow Poplar	F
Elm - Cedar	B	Oak - Laurel	F	Tupelo / Black Gum	B
Elm - Chinese/Lacebark	A	Oak - Live - (<10")	B	Walnut	E
Elm - Siberian	A	Oak - Live (>10")	E	Waxmyrtle - Pacific	F
Elm - (all others)	B	Oak - Pin	E	Willow	F
Eucalyptus	F	Oak - Post	E	Xylosma	C
Ficus	F	Oak - Red	E	Yellow Poplar / Tulip	F
Fir	F	Oak - Sand Shinnery	E	Yew	F
Ginkgo	F	Oak - Scarlet	E	Zelkova	B
Gumbo Limbo	F	Oak - Shumard	E		
Hackberry	F	Oak - Valley	F		
Hawthorn	C	Oak - Water	E		
Hemlock	F	Oak - White	D		

Call 877-ARBORIS(T) (877-272-6747) for questions.

**\*These species typically show less growth reduction compared to other species.**

**\*\*Japanese Maple can be easily over regulated, field reports suggest ½ A rate may be more appropriate.**

**Table 3: RIGHTS-OF-WAY APPLICATIONS: Tree reference list and dosage rates**

Species	Category	Species	Category	Species	Category
Acacia	F	Hemlock	F	Oak - Valley	F
Ailanthus	D	Hickory	E	Oak - Water	E
Alder	F	Holly - American	E	Oak - White	E
Anaqua	E	Holly - Yaupon	B	Oak - Willow	E
Arborvitae	F	Hong Kong Orchid Tree	C	Oleander	C
Ash	F	Horsechestnut	C	Olive - Black	F
Aspen	F	Huisache	E	Olive - European	E
Australian Bottle	C	Ironwood / Hornbeam	D	Olive - Russian	E
Australian Pine	B	Jacaranda	F	Orchid Tree - Hong Kong	C
Banyan - Ficus	F	Juniper	F	Osage Orange	F
Basswood - American (>10")	B	Katsura - Japanese	B	Palms	F
Basswood - American (<10")	A	Larch	F	Paloverde	E
Baytree	E	Laurel	F	Paulownia	E
Beech	E	Lilac - Japanese	E	Pear - Ornamental	F
Birch	F	Linden (>10")	B	Pecan	E
Black Gum / Tupelo	C	Linden (<10")	A	Persimmon	C
Bottlebrush	F	Locust - Black	F	Photinia	E
Boxelder	B	Locust - Honey	E	Pines*	F
Buckeye	D	Lombardy Poplar	F	Plum - Ornamental	E
Buttonwood	F	Lysiloma	F	Poinciana	F
California Pepper	C	Magnolia	F	Poplar - Lombardy	F
Camphor	E	Mahogany	F	Raintree - Golden	F
Catalpa	F	Maple - Amur	B	Redbud	A
Cedar - Deodora	E	Maple - Bigleaf	E	Redcedar - Eastern	F
Cedar - all others	F	Maple - Japanese	A	Redwood	F
Cherry - Black	F	(caution)**		Rosewood / Tipuana	C
Cherry - Laurel	E	Maple - Norway (>10")	C	Saltcedar	F
Cherry - all others	E	Maple - Norway (<10")	B	Sassafrass	E
Chinaberry	E	Maple - Red (>10")	C	Sea Grape	E
Chinese Pistache	E	Maple - Red (<10")	B	Soapberry	E
Cottonwood*	F	Maple - Silver (>10")	D	Spruce*	F
Crabapple	F	Maple - Silver (<10")	C	Sugarberry /Southern Hackberry	F
Crape Myrtle	C	Maple - Sugar (>10")	C	Sumac - African	E
Cypress - Leyland	F	Maple - Sugar (<10")	B	Sweetgum (Eastern US)	A
Cypress - all others	B	Melaleuca	F	Sweetgum (Western US)	B
Dogwood - CAUTION**	A	Mesquite	E	Sycamore	F
Ebony - Texas	F	Mimosa	E	Tabebuia	F
Elm - Cedar	B	Mountain Ash	B	Tallow - Chinese Tamarisk	F
Elm - Chinese/Lacebark	A	Mulberry	F	Tepeguaje	E
Elm - Siberian	A	Oak - Black	E	Tulip / Yellow Poplar	F
Elm -all others (>10")	C	Oak - Blackjack	E	Tupelo / Black Gum	C
Elm -all others (<10")	B	Oak - Bur	D	Walnut	E
Eucalyptus	F	Oak - Laurel	F	Waxmyrtle - Pacific	F
Ficus	F	Oak - Live (>10")	E	Willow	F
Fir	F	Oak - Live (<10")	C	Xylosma	C
Ginkgo	F	Oak - Pin	E	Yellow Poplar / Tulip	F
Gumbo Limbo	F	Oak - Post	E	Yew	F
Hackberry	F	Oak - Red	E	Zelkova	B
Hawthorn	D	Oak - Sand Shinnery	E		
		Oak - Scarlet	E		
		Oak - Shumard	E		

\*These species typically show less growth reduction compared to other species.

\*\*Dogwood and Japanese Maples are very sensitive to Cambistat and can be easily over regulated, field reports suggest 1/2 A rate may be more appropriate.

**Table 4:** Cambistat individual dose rate sheet. Mix the required volume of Cambistat with the required volume of water.

DBH (Inches)	Category A		Category B		Category C		Category D		Category E		Category F	
	ml Cambistat	ml Water	ml Cambistat	ml Water	ml Cambistat	ml Water	ml Cambistat	ml Water	ml Cambistat	ml Water	ml Cambistat	ml Water
4	17	185	23	250	42	460	46	510	50	550	67	735
5	21	230	28	310	52	575	57	630	63	690	83	920
6	25	275	33	370	63	690	69	760	75	825	100	1100
7	44	480	58	645	73	805	80	885	88	965	117	1285
8	50	550	67	735	83	920	92	1000	100	1100	133	1470
9	56	620	75	825	94	1030	103	1135	113	1240	150	1650
10	63	690	83	920	104	1145	115	1260	125	1375	167	1835
11	69	755	92	1010	115	1260	126	1390	138	1515	183	2020
12	75	825	100	1100	125	1375	138	1515	150	1650	200	2200
13	81	900	108	1190	135	1490	149	1640	163	1790	217	2385
14	88	965	117	1285	146	1605	160	1765	175	1925	233	2570
15	94	1030	125	1375	156	1720	172	1895	188	2065	250	2750
16	100	1100	133	1470	167	1835	183	2020	200	2200	267	2935
17	106	1170	142	1560	177	1950	195	2145	213	2340	283	3120
18	113	1240	150	1650	188	2065	206	2270	225	2475	300	3300
19	119	1310	158	1745	198	2177	218	2395	238	2615	317	3485
20	125	1375	167	1835	208	2290	229	2520	250	2750	333	3670
21	131	1445	175	1925	219	2410	241	2650	263	2890	350	3850
22	138	1515	183	2020	229	2520	252	2775	275	3025	367	4035
23	144	1580	192	2110	240	2635	264	2900	288	3165	383	4220
24	150	1650	200	2200	250	2750	275	3025	300	3300	400	4400
25	156	1720	208	2295	260	2865	287	3150	313	3440	417	4585
26	162	1787	217	2385	271	2980	298	3277	325	3575	433	4765
27	169	1855	225	2475	281	3095	310	3400	338	3715	450	4950
28	175	1925	233	2570	292	3210	321	3530	350	3850	467	5135
29	181	1995	242	2660	302	3320	332	3660	363	3990	483	5320
30	188	2060	250	2750	313	3440	344	3780	375	4125	500	5500
31	194	2130	258	2840	323	3550	355	3910	388	4265	517	5685
32	200	2200	267	2930	333	3670	367	4035	400	4400	533	5870
33	206	2270	275	3025	345	3780	378	4160	413	4540	550	6050
34	213	2340	283	3120	354	3900	390	4285	425	4675	567	6235
35	219	2405	292	3210	365	4010	401	4410	438	4810	583	6415
36	225	2475	300	3300	375	4125	413	4540	450	4950	600	6600
37	231	2545	308	3390	386	4240	424	4664	463	5090	617	6780
38	238	2610	317	3480	396	4355	435	4790	475	5225	633	6970
39	244	2680	325	3575	406	4470	447	4915	488	5365	650	7150
40	250	2750	333	3670	417	4585	458	5040	500	5500	667	7335
41	256	2820	342	3760	427	4700	470	5168	513	5640	683	7520
42	263	2890	350	3850	438	4815	481	5295	525	5775	700	7700
43	269	2955	358	3940	448	4930	493	5420	538	5915	717	7885
44	275	3025	367	4035	458	5040	504	5545	550	6050	733	8065
45	281	3095	375	4125	469	5155	516	5670	563	6190	750	8250
46	288	3160	383	4220	479	5270	527	5800	575	6325	767	8435
47	294	3230	392	4310	490	5385	539	5924	588	6463	783	8615
48	300	3300	400	4400	500	5500	550	6050	600	6600	800	8800
49	306	3370	408	4490	510	5615	560	6175	613	6740	817	8985
50	313	3440	417	4585	521	5730	573	6300	625	6875	833	9167

**Table 5:** Ready-To-Use (RTU) rate sheet and the number of soil injection holes needed (based on 250ml delivered per hole). Make a RTU solution by combining 11 parts of water with 1 part of Cambistat.

DBH (Inches)	Category A 75ml per inch DBH		Category B 100ml per inch DBH		Category C 125ml per inch DBH		Category D 138ml per inch DBH		Category E 150ml per inch DBH		Category F 200ml per inch DBH	
	ml dose	# of holes	ml dose	# of holes	ml dose	# of holes	ml dose	# of holes	ml dose	# of holes	ml dose	# of holes
4	202*	BD**	273*	BD**	500	BD**	550	BD**	600	BD**	800	3.2
5	251*	BD**	338*	BD**	625	BD**	688	BD**	750	3	1000	4
6	300*	BD**	403*	BD**	750	3	825	3.3	900	3.6	1200	4.8
7	525	BD**	700	BD**	875	3.5	963	3.9	1050	4.2	1400	5.6
8	600	BD**	800	3.2	1000	4	1100	4.4	1200	4.8	1600	6.4
9	675	BD**	900	3.6	1125	4.5	1238	5	1350	5.4	1800	7.2
10	750	3	1000	4	1250	5	1375	5.5	1500	6	2000	8
11	825	3.3	1100	4.4	1375	5.5	1513	6.1	1650	6.6	2200	8.8
12	900	3.6	1200	4.8	1500	6	1650	6.6	1800	7.2	2400	9.6
13	975	3.9	1300	5.2	1625	6.5	1788	7.2	1950	7.8	2600	10.4
14	1050	4.2	1400	5.6	1750	7	1925	7.7	2100	8.4	2800	11.2
15	1125	4.5	1500	6	1875	7.5	2063	8.3	2250	9	3000	12
16	1200	4.8	1600	6.4	2000	8	2200	8.8	2400	9.6	3200	12.8
17	1275	5.1	1700	6.8	2125	8.5	2338	9.4	2550	10.2	3400	13.6
18	1350	5.4	1800	7.2	2250	9	2475	9.9	2700	10.8	3600	14.4
19	1425	5.7	1900	7.6	2375	9.5	2613	10.5	2850	11.4	3800	15.2
20	1500	6	2000	8	2500	10	2750	11	3000	12	4000	16
21	1575	6.3	2100	8.4	2625	10.5	2888	11.6	3150	12.6	4200	16.8
22	1650	6.6	2200	8.8	2750	11	3025	12.1	3300	13.2	4400	17.6
23	1725	6.9	2300	9.2	2875	11.5	3163	12.7	3450	13.8	4600	18.4
24	1800	7.2	2400	9.6	3000	12	3300	13.2	3600	14.4	4800	19.2
25	1875	7.5	2500	10	3125	12.5	3438	13.8	3750	15	5000	20
26	1950	7.8	2600	10.4	3250	13	3575	14.3	3900	15.6	5200	20.8
27	2025	8.1	2700	10.8	3375	13.5	3713	14.9	4050	16.2	5400	21.6
28	2100	8.4	2800	11.2	3500	14.0	3850	15.4	4200	16.8	5600	22.4
29	2175	8.7	2900	11.6	3625	14.5	3988	16	4350	17.4	5800	23.2
30	2250	9	3000	12	3750	15	4125	16.5	4500	18	6000	24
31	2325	9.3	3100	12.4	3875	15.5	4263	17.1	4650	18.6	6200	24.8
32	2400	9.6	3200	12.8	4000	16	4400	17.6	4800	19.2	6400	25.6
33	2475	9.9	3300	13.2	4125	16.5	4538	18.2	4950	19.8	6600	26.4
34	2550	10.2	3400	13.6	4250	17	4675	18.7	5100	20.4	6800	27.2
35	2625	10.5	3500	14	4375	17.5	4813	19.3	5250	21	7000	28
36	2700	10.8	3600	14.4	4500	18	4950	19.8	5400	21.6	7200	28.8
37	2775	11.1	3700	14.8	4625	18.5	5088	20.4	5550	22.2	7400	29.6
38	2850	11.4	3800	15.2	4750	19	5225	20.9	5700	22.8	7600	30.4
39	2925	11.7	3900	15.6	4875	19.5	5363	21.5	5850	23.4	7800	31.2
40	3000	12	4000	16	5000	20	5500	22	6000	24	8000	32
41	3075	12.3	4100	16.4	5125	20.5	5638	22.6	6150	24.6	8200	32.8
42	3150	12.6	4200	16.8	5250	21	5775	23.1	6300	25.2	8400	33.6
43	3225	12.9	4300	17.2	5375	21.5	5913	23.7	6450	25.8	8600	34.4
44	3300	13.2	4400	17.6	5500	22	6050	24.2	6600	26.4	8800	35.2
45	3375	13.5	4500	18	5625	22.5	6188	24.8	6750	27	9000	36
46	3450	13.8	4600	18.4	5750	23	6325	25.3	6900	27.6	9200	36.8
47	3525	14.1	4700	18.8	5875	23.5	6463	25.9	7050	28.2	9400	37.6
48	3600	14.4	4800	19.2	6000	24	6600	26.4	7200	28.8	9600	38.4
49	3675	14.7	4900	19.6	6125	24.5	6738	27	7350	29.4	9800	39.2
50	3750	15	5000	20	6250	25	6875	27.5	7500	30	10000	40

\*The dosage rate for this tree has been adjusted down due to sensitivity of small trees in this category.

\*\*Use the basal drench application method to apply Cambistat to trees of this size in this category.

**Table 6.** Partial hole volumes for soil injection (based on 250 ml delivered per hole)

Partial hole	Volume
.1	25 ml
.2	50 ml
.3	75 ml
.4	100 ml
.5	125 ml
.6	150 ml
.7	175 ml
.8	200 ml
.9	225 ml

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

**Pesticide Storage:** Keep container closed when not in use. Do not store near food or feed. Protect from freezing. In case of spill or leak on floor or paved surfaces, soak up with sand, earth, or synthetic absorbent. Remove to chemical waste area.

**Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency, or the hazardous waste representative at the nearest EPA regional office for guidance.

**Container Disposal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

#### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

Notice: Read the entire Directions For Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

Follow the Directions For Use carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Tree injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or tree conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS or seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS and Seller harmless for any claims relating to such factors.

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**Rainbow Treecare Scientific Advancements**

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### SECTION 1: Product and Company Identification

#### 1.1. Product identifier

Trade name : CAMBISTAT  
Product code : EPA Reg. No. 74779-3

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Use of the substance/preparation : Plant Growth Regulator

##### 1.2.2. Uses advised against

No data available

#### 1.3. Details of the supplier of the safety data sheet

Rainbow Treecare Scientific Advancements  
11571 K-Tel Drive  
Minnetonka, MN 55343  
Phone: 1-(877) 272-6747 (toll free)  
[www.treecarescience.com](http://www.treecarescience.com)

#### 1.4. Emergency telephone number

Emergency number : (800)-424-9300 (CHEMTREC)

### SECTION 2: Hazards identification

Hazard Symbols :



Signal word :

WARNING

Hazard statements (health) :

Harmful if swallowed, absorbed through the skin or inhaled.

Precautionary statements :

Avoid contact with skin, eyes, or clothing.  
Avoid breathing spray mist.

Hazard statements (environmental) :

Do not apply directly to water, 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 wash water or rinsate.

Hazard statements (physical/chemical) :

Do not store near heat or open flame.

### SECTION 3: Composition/information on ingredients

Chemical Name	CAS Number	%/wt.
Paclobutrazol	76738-62-0	22.3

Ingredients not precisely identified are proprietary or non-hazardous.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- IF SWALLOWED** : Call physician or Poison Control Center immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a Poison Control Center or a physician. Do not give anything by mouth to an unconscious person.
- IF INHALED** : Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
- IF ON SKIN OR CLOTHING** : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or physician for treatment advice.
- IF IN EYES** : Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact the National Poison Control Hotline at 1-800-222-1222 for emergency medical treatment information 24 hours a day, seven days a week.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Dry chemical, foam, or CO<sub>2</sub> extinguishing media.

#### 5.2. Special hazards arising from the substance or mixture

Specific Hazards : This product will burn with flames if ignited. This product has a minimum ignition energy between 100 and 300 millijoules. Mechanical sparks, open flames, and certain hot surfaces can serve as ignition sources for this material. Eliminate the presence of mechanical sparks and other ignition sources where dust clouds of this material could form. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

#### 5.3. Advice for firefighters

Protective Equipment : Wear full protective clothing and self-contained breathing apparatus with full facepiece.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to **Section 8 "Exposure controls/personal protection"**

#### 6.2. Environmental precautions

This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

#### 6.3. Methods and materials for cleaning up

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil, or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area



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with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible storage container. Once all material is cleaned up and placed in a disposal container, seal the container and arrange for disposition. This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

## SECTION 7: Handling and storage

KEEP OUT OF REACH OF CHILDREN!

### 7.1. Precautions for safe handling

Precautions for safe handling : Use in a well-ventilated area.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Do not contaminate water, food or feed by storage or disposal. Keep container closed when not in use. Do not store near food or feed. Protect from freezing. In case of spill or leak on floor or paved surfaces, soak up with sand, earth, or synthetic absorbent. Remove to chemical waste area.

## SECTION 8: Exposure controls/personal protection

### 8.1. Personal protective equipment

#### Exposure Limit:

OSHA PEL: Not Listed

ACIGH TLV: Not Listed

#### Individual protection measures:

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear long sleeved shirt and long pants, socks, shoes, and gloves. Remove and wash contaminated clothing before reuse.

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 state or tribal agency responsible for pesticide regulation.

**EYE PROTECTION** – Use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**CLOTHING** – Wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

**GLOVES** – Wear chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC), viton.

**RESPIRATOR** – A respirator is not normally required when handling this substance. Use effective engineering controls to comply with the occupational exposure limits.

Discard clothing and other absorbent materials that have been heavily contaminated with this product. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under circumstances where air-purifying respirators may not provide adequate protection. In case of emergency spills, use a NIOSH approved respirator with any N, R, P or HE filter.

### 8.2. Exposure controls

#### Engineering Controls:

No applicable information available.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	: Off-white/beige liquid
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting/freezing point	: No data available
Boiling point	: Approx. 212 °F
Flash point	: Does not flash
Flammability	: No data available
Explosive properties	: No data available
Vapor pressure	: Paclobutrazol: $7.5 \times 10^{-9}$ mmHg @ 68 °F (20 °C)
Vapor density	: No data available
Relative density	: 1.09 g/ml
Solubility(ies)	: Water: 26 mb/l @ 20 °C Fat: No applicable information available
Partition coefficient	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No applicable information available

### 10.2. Chemical stability

Stable under standard conditions.

### 10.3. Possibility of hazardous reactions

No applicable information available

### 10.4. Conditions to avoid

None known

### 10.5. Incompatible materials

Oxidizing agents (e.g. chlorates, nitrates)

### 10.6. Hazardous decomposition products

Can decompose at high temperatures forming toxic gas.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Based on an evaluation of the ingredients and/or similar products.

ACUTE TOXICITY		
Oral	LD50 rat	>2000 mg/kg body weight
Inhalation	LC50 rat	>250 mg/M <sup>3</sup> air
Dermal	LD50 rat	>2000 mg/kg body weight
Irritation		
Eye Contact	Rabbit	Slightly irritating
Skin Contact	Rabbit	Non-irritating
Respiratory tract	-	No applicable information available
Sensitization	unknown	Not a sensitizer

Carcinogenicity	: No evidence of carcinogenicity in 2-year rodent studies.
Mutagenicity	: No applicable information available.
Reproductive Toxicity	: Dose-related increase in minor skeletal defects and evidence of fetotoxicity in rat studies (urogenital defects). No adverse effects seen on reproductive parameters or reproductive organs in a 2-generational rat study. Liver effects were noted at the highest dose level in the FO females and male and female offspring (active ingredient).
Chronic Toxicity	: Evidence of liver toxicity in repeat dose rodent studies at high dose levels. (1250 ppm, 90 day and 2 year tests). No effects noted in rabbit studies. No adverse health effects are expected in humans at airborne levels below the occupational exposure limit.
NTP/IARC/OSHA listing(s)	: No applicable information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### ECOTOXICITY:

Fish: LC <sub>50</sub>	: 23.6 ppm
Daphnia: EC <sub>50</sub>	: 33.2 ppm
Bird (8-day dietary – Bobwhite Quail): LC <sub>50</sub>	: >20,000 ppm
Bees: LC <sub>50</sub>	: >50 ug/bee

### 12.2. Persistence and degradability

No applicable information available.

### 12.3. Bioaccumulative potential

Soil DT50 0.5-1.0 y in general; in calcareous clay loam (pH 8.8, 14% o.m.), DT50<42 d.; in coarse sandy loam (pH 6.8, 4% o.m.), DT50>140 d. Stable in water. Mixes in water (after 24 h).

### 12.4. Mobility in soil

No applicable information available.



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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Pesticide disposal:

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency, or the hazardous waste representative at the nearest EPA regional office for guidance.

Container disposal:

**Less than or equal to 5 gallons:** Non-refillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into the application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  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, if available, or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn unless allowed by state and local ordinances.

**Over 5 gallons:** Non-refillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into the application equipment or a mix tank. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn unless allowed by state and local ordinances.

### SECTION 14: Transport information

<b>UN number</b>	: Not applicable
<b>Proper shipping name</b>	: Plant growth inhibitor, modified or regulator
<b>Class</b>	: Not applicable
<b>Packaging group</b>	: Not applicable
<b>NMFC number/class</b>	: 101685/65
<b>Marine pollutant</b>	: Not applicable

### SECTION 15: Regulatory information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.



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## Safety Data Sheet

US and GHS

Revision date: May 29, 2015

Version: 1.0

EPA signal word

: CAUTION

Precautionary statements

: **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION.** Harmful if swallowed, absorbed through the skin, or inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear long sleeved shirt and long pants, socks, shoes, and gloves. Remove and wash contaminated clothing before reuse

Pictograms/symbols

: None

### SECTION 16: Other information

MSDS US

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**REVISED DATE:** May 2015

**REVISED FOR:** GHS Compliance