PACE PLANT HEALTH ADVOCATES

STANDARD OPERATION PROCEDURES

PACE KleenGrow

DISEASE CONTROL
Use on Ornamental Greenhouse Crops and in Irrigation Water

PROPAGATION DIP, FOLIAR SPRAY/ DRENCH OR SUBIRRIGATION

Dip or Soak - Pre-planting and Storage: Seed or bulb, bareroots and cutting dips.

- ***Seed Dip/Soak:*** Submerge in the solution. Rate and soaking time is based on type of seeds coat and crop. Randomly check germination rate.
- ***Bulb or Bare-root or Cutting Dip:*** Submerge in the solution before planting or placing in storage. Monitor ppm of the solution using QAC test strips.

Misting/Hydroponics - Intermittent Injection: Use lower rates, longer intervals, and shorter duration time than your standard settings.

- ***NFT for hydroponics:*** Start intermediate injecting 1 to 4 days after placement young plants in channel.
- ***Drip Hydroponics:*** Start continuous injecting immediately upon setting plan.

Foliar or Subirrigation - Continuous/Intermittent Injection or Spray: Start applying at first watering.

WELL-ROOTED CROPS FOLIAR SPRAY/ DRENCH OR SUBIRRIGATION

Spray/Drench or Drip: Apply using a manual spray, boom, overhead or subirrigation system.

- ***Manual Spray or Drip:*** Intermittently apply to crops and continue applying until crops are shipped. Use in the final pre-ship watering.
- ***Intermittent Injection - Flood Floors/Benches:*** For most bedding plants and perennials 6 fl oz/100 gal every 14 days is adequate.
- ***Continuous Injection:*** For most bedding and perennial crops, 2 - 5 ppm is recommended.

USE RATES FOR GREENHOUSE & SHADEHOUSE CROPS

Dip or Soak For Propagation	Soak Time	fl oz/gal	ppm	Comment		
Pre-Treated or Untreated Seeds	30 sec to 5 min	0.13 - 1.0	75 - 600	Lower rate/ soaking time for pre-treated seeds		
Bulbs/ Bare Root Cuttings	30 sec to 5 min	0.13 - 0.25	75 - 145	Use prior to planting or storing.		
Drip, Spray, Drench	**Crop**	**fl oz/gal**	**fl oz/ 100 gal**	**mL/L**	**ppm**	**Frequency**
Propagation: Newly Sown Seeds, Bulbs, Bare-Root or Rooted Cuttings	Bedding/Perennials	0.06	6	0.5	40	Every 7 days
	Woody Ornamentals	0.13	13	1	75	Every 14 days
Well Rooted - Potted or Hydroponics	Bedding Perennials	0.13	13	1	75	Every 7 days
	Woody Ornamentals	0.25	25	2	145	Every 14 days
Pre-Ship Spray	All Crops	0.13	13	1	75	Prior to Shipping

USE RATES FOR RECIRCULATED IRRIGATION SYSTEMS

Application	Inline Dilution fl oz/100 gal	Inline Dilution ppm	Diluted Injection-1:100 % Stock Tank Solution	Direct Injection Ratio or Manual Applied Rates	Frequency of Use
ON CROPS: Overhead or Subirrigation Systems					
Continuous Injection	0.34 - 1.2	2 - 7	0.03 - 1.0	1:37,500 to 1:10,714	During All Watering Cycles
Intermittent Injection	2.6 - 13	15 - 75	2.5 - 10	1:5000 to 1:937	Every 7 Days
	6.0 - 25	40 - 145	2.0 - 5.0	1:2143 to 1:517	Every 14 Days
ON CROPS: Water Storage Tank or Reservoir					
Initial Dose - Shock Treatment	2.6 - 3.4	15 - 20	2.5 - 3.0	2.5 - 3 gal / 10,000 gal	1 - 2 Times Annually
Maintenance	2.0 - 2.6	10 - 15	2.0 - 2.5	2 - 2.5 gal / 10,000 gal	Every 14 - 28 day
Cool Pad Water					
Initial Dose - Shock Treatment	100.0	600	0	Concentrated Product	1 - 2 Times Annually
Maintenance	2.0 - 6.0	10 - 40	2.0 - 5.0	2.0 - 6.0 fl oz /100 gal	Every 14 - 28 day
Irrigation Systems					
Shock Treatment Injection	100.0	600	0	Concentrated Product	1 - 2 Times Annually

PACE KleenGrow is not approved for algae control in California.

PACE KleenGrow COMPATIBILITY CHART FOR TANK MIXING OR CHEMIGATION

COMPATIBLE FUNGICIDE/BACTERICIDES			
Product	**Active Ingredient**	**Product**	**Active Ingredient**
AgriMycin	Streptomycin sulfate	Kaligreen	Potassium bicarbonate
Adorn	Fluopicolide	Kalmor	Copper Hydroxide
Aliette	Aluminum tris	Kocide 3000	Copper Hydroxide
Alude	Phosphorous acid	Medallion	Fludioxonil
Areca	Aluminum tris	MilStop	Potassium bicarbonate
Astun	Isofetamid	Orkestra Intrinsic	Fluxapyroxad + Pyraclostrobin
Banner MAXX	Propiconazole	Pageant Intrinsic	Boscalid + Pyraclostrobin
Broadform	Fluopyram + Trifloxystrobin	Palladium	Cyprodinil + Fludioxonil
Chipco 26019	Iprodione	Phyton 27	Copper sulfate pentahydrate
Camelot O	Copper octanoate	*Plantshield	Trichoderma harzianum
Decree	Fenhexamid	Postiva	Pydiflumetofen+Difenoconazole
Eagle 20 EW	Myclobutanil	*Rootshield	Trichoderma harzianum
Emblem (Spirato)	Flodioxonil	Segovis	Oxathiapiprolin
Empress	Pyraclostrobin	Segway O	Cyazofamid
Fame	Fluoxastrobin	**Stature SC	Dimethomorph
FenStop	Fenamidone	Subdue MAXX	Mefenoxam
Grotto	Copper octanoate	Terraguard	Triflumizole
Heritage	Azoxystrobin		
*Rootshield/PlantShield - Tank mix or chemigation with KleenGrow or UpTake PRO at rates 0.06 fl oz/gal (40 ppm) or lower.			
**Stature SC - Test on Bloom			

COMPATIBLE INSECTICIDE/MITICIDE			
Product	**Active Ingredient**	**Product**	**Active Ingredient**
Aria	Flonicamid	Judo (Savate)	Spiromesifen
Altus	Flupyradifurone	Mainspring	Cyantraniliprole
Avid/Agri-mek	Abamectin	Mavrick Aquaflow	Fluvalinate
Chlorpyrifos Pro 4	Chlorpyrifos	Minx2	Abamectin
Conserve	Spinosad	Neemix	Azadirachtin
Decathlon 20 WP	Cyfluthrin	Pylon	Chlorfenapyr
Discus	Cyfluthrin+Imidacloprid	Pyreth-It (Evergreen 6-60)	Pyrethrin+Piperonyl butoxide
Endeavor	Pymetrozine	Safari	Dinotefuran
Entrust	Spinosad	Sultan	Cyflumetofen
Flagship 25 WP	Thiamethoxam	Talstar	Bifenthrin

COMPATIBLE HERBICIDES		COMPATIBLE PGR	
Product	**Active Ingredient**	**Product**	**Active Ingredient**
Roundup	Glyphosate	B-Nine/Dazide	Daminozide

Prior to adding KleenGrow to a tank mix or irrigation lines, use jar test to check chemical compatibility and test on crops for physical compatibility.
Always add KleenGrow to a diluted solution and not to the concentrated product.

PACE PLANT HEALTH ADVOCATES
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