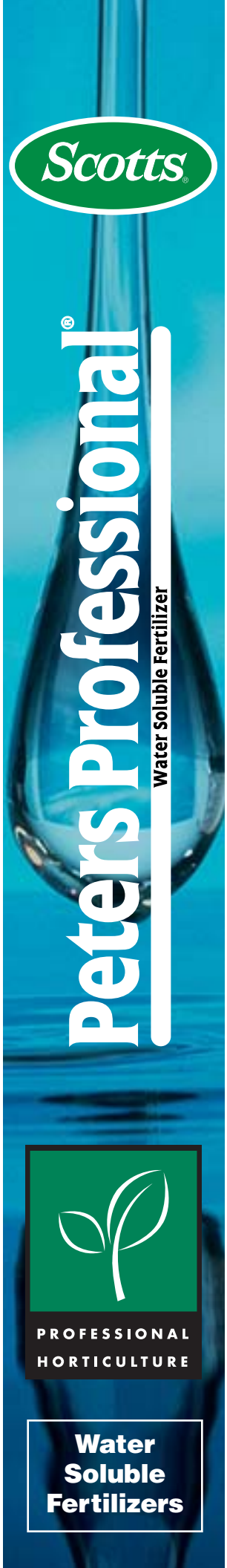

8-45-14 Plant Starter

PRODUCT FEATURES

- Ideal for all transplants including agricultural and floricultural transplants in greenhouse and field culture
- High phosphorus level stimulates rapid root growth
- Can be used as a drench to get plants started

STOCK NO. 91140 / 43

- Especially beneficial when field soil temperatures are low
- Useful tool to quickly increase available Phosphorus.
- Maximum solubility 4 lb./gal.

GUARANTEED ANALYSIS

For Continuous Liquid Feed Programs

Total Nitrogen (N)	8%
8% ammoniacal nitrogen	
Available phosphate (P_2O_5)	45%
Soluble potash (K_2O)	14%
Magnesium (Mg) (Total)	0.1%
0.1% water soluble magnesium (Mg)	
Boron (B)	0.0068%
Copper (Cu)	0.0036%
0.0036% chelated copper (Cu)	
Iron (Fe)	0.05%
0.05% chelated iron (Fe)	
Manganese (Mn)	0.025%
0.025% chelated manganese (Mn)	
Molybdenum (Mo)	0.0009%
Zinc (Zn)	0.0025%
0.0025% chelated zinc (Zn)	

Derived from: ammonium phosphate, ammonium sulfate, potassium phosphate, potassium sulfate, magnesium sulfate, boric acid, copper EDTA, iron EDTA, manganese EDTA, ammonium molybdate, zinc EDTA.

Chloride, not more than 0.1%.

Potential Acidity: 895 lbs. calcium carbonate equivalent per ton.

Distributed By:

The Scotts Company
14111 Scottslawn Road • Marysville, Ohio 43041
1-800-492-8255

H4034 Revised 121004

Peters Professional® 8-45-14 Plant Starter

Water Soluble Fertilizer

(Suggestions for Commercial Growers)

100 ppm N Solution Contains the Following Elemental ppm		
Ammonium-N	(NH_4 – N)	100.0
Nitrate-N	(NO_3 – N)	0
Urea-N	(Urea-N)	0
Phosphorus	(P)	244.6
Potassium	(K)	145.8
Calcium	(Ca)	0
Magnesium	(Mg)	1.25
Boron	(B)	0.085
Copper	(Cu)	0.045
Iron	(Fe)	0.625
Manganese	(Mn)	0.3125
Molybdenum	(Mo)	0.01125
Zinc	(Zn)	0.0312

- Peters 8-45-14 contains a high level of phosphorus which is important for proper root development, especially when transplants are set in the field. Phosphorus has been known to be "fixed" and unavailable, and Peters 8-45-14 applications correct this problem in soils.
- While it may be applied just prior to transplant, normally 8-45-14 is applied at the time of transplant. One 200 ppm nitrogen application supplies 489 ppm phosphorus.

Ounces of Peters Professional 8-45-14 Per Gallon of Concentrate

Nitrogen	Injector Ratios*					E.C.**
ppm N	1:15	1:100	1:128	1:200	1:300	mmhos/cm
25	0.6	4.22	5.40	8.44	12.66	0.3
50	1.3	8.44	10.80	16.88	25.32	0.6
75	1.9	12.66	16.20	25.32	37.98	0.9
100	2.5	16.88	21.61	33.76	50.64	1.2
150	3.8	25.32	32.41	50.64	***	1.8
200	5.1	33.76	43.21	***	***	2.4
300	7.6	50.64	***	***	***	3.6
400	10.1	***	***	***	***	4.8

Approximate Gallons Required to Dissolve One 25 lb. Bag of 8-45-14

Nitrogen	Injector Ratios***	
ppm N	1:100	1:200
25	95	48
50	48	24
75	32	16
100	24	12
150	16	8
200	12	***
300	8	***
400	***	***

* Use the oz./gal. to obtain suggested or desired ppm N. To customize, values are additive. For example, if 250 ppm N is desired, using a 1:100 injector, add 33.76 oz. (200 ppm N) and 12.66 oz. (50 ppm N) to yield 46.42 oz./gal. concentrate. To convert oz./gal. to grams/liters, multiply by 7.5.

** E.C. measurements do not include E.C. of plain water. E.C. calculations are based upon a 100 ppm nitrogen solution with reverse osmosis water.

***Limit of solubility 4 lbs./gal. (64 oz./gal.)

SUGGESTIONS FOR USE

The chemical composition of the irrigation water applied to crops has a major influence on the nutrients available to plants in the long term. Before selecting and/or designing a fertilizer program, first test the irrigation water to better understand pH and alkalinity.

In concentrated solution, do not mix with Calcium containing fertilizers as a precipitate will form.

Over time, high P_2O_5 fertilizers should be used in combination or rotation with other fertilizers to avoid overloading the soil with phosphorus which may cause decreased availability of some micronutrients.

Use the Scotts Testing Laboratory for more reliable media, solution and tissue test results. Call 1-877-HORT LAB for technical assistance.

Contact your Scotts representative or Scotts Customer Service at 1-800-492-8225 for more information.