



14-7-14

with Slow Release Methylene Urea Nitrogen plus Micros

- **Low Salt Index, No Chlorides**
- **Crystal-Clear Solution**
- **Slow Release Nitrogen**
- **Provides Continuous Steady Feeding**
- **100% Chelated Micronutrients**
- **2-1-2 Ratio in a Liquid Formula**

Guaranteed Analysis:

Total Nitrogen (N)	.14%
7% Urea Nitrogen	
7% Slowly Available Water Soluble Nitrogen*	
Available Phosphate (P ₂ O ₅)	.7%
Soluble Potash (K ₂ O)	.14%
Boron (B)	.02%
Copper (Cu)	.05%
0.05% Chelated Copper (Cu)	
Iron (Fe)	.01%
0.1% Chelated Iron (Fe)	
Manganese (Mn)	.05%
0.05% Chelated Manganese (Mn)	
Molybdenum (Mo)	.005%
Zinc (Zn)	.05%
0.05% Chelated Zinc (Zn)	

Derived From: Urea, Methylene Urea, Potassium Carbonate, Phosphoric Acid, Copper EDTA Chelate, Iron EDTA Chelate, Manganese EDTA Chelate, Zinc EDTA Chelate, Sodium Molybdenum, Boric Acid.

Chelating Agent: EDTA.

*7% slowly available Nitrogen from Methylene Urea

Weight per gallon: 11.31 lbs.

Potential acidity equivalent to 390 lbs. Calcium Carbonate per ton.

14-7-14 EC Readings				
Nitrogen PPM	EC (mmhos/cm)		Nitrogen PPM	EC (mmhos/cm)
25	0.16		200	1.28
50	0.32		300	1.92
75	0.48		400	2.56
100	0.64		500	3.2

Product Description:

14-7-14 is a concentrated crystal-clear liquid solution in the 2-1-2 ratio that the horticultural industry favors. The solution contains 7% slow release nitrogen from our exclusive methylene urea. Methylene urea is known to be a very consistent and reliable nitrogen source that remains present and available to your plants for a longer period of time. Methylene urea is not easily broken down, and its nitrogen will only be released by a combi-

nation of factors (heat, humidity, and microbial activity). This product's control release nitrogen produces a more consistent nitrogen feeding curve. Timings between fertilizations can be extended. The slow release nitrogen is 'tackified' and is less likely to leach or volatilize. The potassium is completely soluble and therefore immediately available for plant uptake. It is ideal to use when plants are maturing and blooming.



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Fluid Ounces Of 14-7-14 Per Gallon Of Water								
PPM Nitrogen:	25	50	75	100	150	200	300	400
1:500	8.42	16.84	25.26	33.68	50.52	67.37	101.05	134.73
1:300	5.05	10.10	15.16	20.21	30.31	40.42	60.63	80.84
1:200	3.37	6.74	10.10	13.47	20.21	26.95	40.42	53.89
1:100	1.68	3.37	5.05	6.74	10.10	13.47	20.21	26.95
1:50	0.84	1.68	2.53	3.37	5.05	6.74	10.10	13.47
1:15 Ratio for Hoizon Proportioner								
1:15	0.25	0.51	0.76	1.01	1.52	2.02	3.03	N/A

Application Recommendations:

14-7-14 needs no mixing and will not settle out of solution. Like all Growth Products, it is ideal for any type of fertigation system, drip irrigation or spray equipment. Use 14-7-14 on all types of bedding plants, perennials, cut flowers, plugs, ornamentals, nursery crops, trees, foliage and container plants.

Direct Siphon: 14-7-14 can be siphoned directly from the original container. This can be done with a variable proportioner that can be set to high ratios. This eliminates the need to mix stock concentrates or stir mixing barrels. For 100 PPM nitrogen, set injector to 1:1900; for 200 PPM, set injector to 1:950.

Parts Per Million: Use the *Parts Per Million* chart to choose desired nitrogen ratio.

Drench: Use the *Drench Rates* chart in order to calculate application by specific number of pots. Ideal for field grown and containerized nursery stock as an alternative to top dressing with granulars.

Drench Rates For Containers 100 Gallon Tank	Low	High
	(Sensitive Plants)	(Nursery Stock & Foliage)
Desired Nitrogen Per Cubic Yard	.375 lb. N	.56 lb. N
Gallons 14-7-14 Per 100 Gal. Tank	1.08	1.62

Drench Rate Per Container		
Pot Size	Tank Mix Applied Per Pot	Number Of Pots Per 100 Gallon Tank Mix
4"	2 fl. oz.	6400
5"	3.5 fl. oz.	3657
6"	6.2 fl. oz.	2065
1 Gal.	9.3 fl. oz.	1376
2 Gal.	20 fl. oz.	640
3 Gal.	35 fl. oz.	366

Foliar Feeding: When using overhead irrigation, 14-7-14 gives you dual efficiency since the nutrients will be absorbed by both the leaves and roots. For tender plants and greenhouse foliar spray applications use one-half the rate (PPM) you would normally use for drip irrigation feeding.

Hand Watering: Mix 1/2 to 3/4 teaspoon of 14-7-14 per gallon of water. Saturate soil with mix.

How to Extend Feedings: Depending on crop species, temperature and soil composition, you can extend the timings in-between fertilization as a result of the slow release nitrogen. In order to assure plants are receiving adequate nutrient levels, an electrical conductivity (EC) reading should be taken immediately after fertilizer is applied and then at 7 day intervals. By tracking the EC reading you can establish a nutrient release curve for your specific growing conditions and crops.

Storage & Handling:

Storage: All Growth Products horticultural fertilizers can be stored in normal warehouse areas. 14-7-14 has an alkaline pH and is not corrosive. Always store in original container and keep sealed.

Mixing: 14-7-14 is compatible with other technical chemicals including fungicides and insecticides and can be mixed and sprayed in one application.

Manufactured By:

Growth Products, Ltd.
PO Box 1252, White Plains, NY 10602
800-648-7626
www.growthproducts.com