

Technical Bulletin

Gainer[®] NEU II

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Introduction

Gainer NEU II (17-22-22) is an all purpose balanced formulation of high analysis NPK. It is one of the most versatile products which contains 6 micronutrients, multiple nitrogen sources, and is completely water-soluble.

Gainer NEU II is formulated for use in spray solutions requiring a final pH above 5.0. This feature sets Gainer NEU II apart from many generic 20-20-20 formulations in the market. The formulation can be mixed with many agrichemicals and works extremely well when combined with insecticides such as Arctic™ and other pyrethroids.

Gainer NEU II has a unique formulation that helps buffer the pH of the spray solution. The following chart shows the approximate stock solution pH when starting with a pH of 8.1. As water quality may vary always confirm pH with a jar test.

Concentration	pH
1 lb/ 100 gal	6.7
1 lb/ 50 gal	6.6
1 lb/ 10 gal	6.5
1 lb/ 1 gal	6.4
1 lb/ 1 gal	6.2

Recommended Crops

Berries: blackberry, blueberry, cranberry, raspberry, strawberry

Nut Crops: almond, walnut and other nut crops

Grain and Other crops: alfalfa, barley, canola, corn, cotton, hops, lentil, mint, rice, sorghum, soybean, sugar beet, sweet corn, wheat

Vegetables: asparagus, broccoli, cabbage, cauliflower, carrot, celery, lettuce, melon, onion, peas, pepper, potato, tomato, turnip
Tree and Fruit Crops: apple, avocado, cherry, citrus, grape, peach, plum and other tree fruits.

Use Rates and Timing

Gainer NEU II is most often recommended at 3 to 10 pounds per acre per application. Do not exceed one pound of Gainer NEU II per gallon of spray solution. If warm water is used, do not exceed 1.5 lbs per gallon.

If used at a rate of 5 pounds per acre, each 25 bag covers 5 acres. For spot treatments, use 1 tablespoon per gallon of water. This product can be applied by ground, air and in all types of irrigation.



Precautions

Always dissolve Gainer NEU II in the water prior to the addition of any other products. Always agitate for a minimum of 10 minutes or until all the crystals are dissolved. Gainer NEU II is compatible



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most commonly used pesticides. However, it should not be used with lead arsenate, hydrated lime, lime sulfur, or other strongly alkaline materials.

In all cases, a jar test is recommended to determine compatibility of Gainer NEU II with other materials before proceeding with high volume mixing. When mixing, use stainless steel, fiberglass, polyethylene, or other plastic materials.

Contents

Total Nitrogen (N).....	17.00%
6.50% Ammoniacal Nitrogen	
3.40% Nitrate Nitrogen	
7.10% Urea Nitrogen	
Available Phosphate (P ₂ O ₅).....	22.00%
Soluble Potash (K ₂ O).....	22.00%
Boron (B) Total	0.02%
0.02% Soluble Boron	
Copper (Cu) Total.....	0.05%
0.05% Chelated Copper	
Iron (Fe) Total.....	0.10%
0.10% Chelated Iron	
Manganese (Mn) Total.....	0.05%
0.05% Chelated Manganese (Mn)	
Molybdenum (Mo) Total.....	0.0005%
0.0005% Soluble Molybdenum	
Zinc (Zn) Total.....	0.05%
0.05% Chelated Zinc Derived from:	
Arsenic (As).....	<0.003%
Cadmium (Cd).....	<0.002%
Lead (Pb).....	<0.001%

Derived from: ammonium phosphate, potassium nitrate, muriate of potash, urea, sodium borate, copper EDTA, iron EDTA, manganese EDTA, sodium molybdate, and zinc EDTA.

Technical Specifications

Product Class	fertilizer
Appearance	clear, blue, odorless crystals
Specific Gravity	1.02 g/ml
Potential Acidity	678 lb calcium carbonate equivalent per ton
Salt index:	61
pH (1% solution)	6.6
Water Solubility	99.95% (min)
Sieve Test (98% min)	
	-14 (1.41 mm) + 100 (0.18 mm)
Packaging	25 lb poly bags 50 lb poly bags 2,000 lb super sacks

This bulletin provides some technical information and is not intended to give complete information for all applications. Always read and follow label directions.

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