

Technical Bulletin

RSA Gainer™ 20-20-20

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Introduction

Gainer™ 20-20-20 is an all purpose balanced formulation of high analysis N-P-K. It is one of the most versatile products which contains 6 micronutrients, multiple nitrogen sources and is completely water-soluble. Gainer™ 20-20-20 contains a proprietary formulation with formulation aids to improve product performance. The formulation also contains two sources of potassium for better solubility.

Gainer™ 20-20-20, because of the potential acidity, helps counteract water alkalinity in spray solutions. 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.	5.7
1 lb/ 50 gal	5.4
1 lb/ 10 gal.	4.6
1 lb/ 5 gal.	4.3
1 lb/ 1 gal.	4.0

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, pea, pepper, potato, tomato, turnip

Tree and Fruit Crops: apple, avocado, cherry, citrus, grape, peach, plum and other tree fruits

Use Rates and Timing

Gainer™ 20-20-20 is most often recommended at 3 to 10 pounds per acre per application. Do not exceed one pound of Gainer™ 20-20-20 per gallon of spray solution. If Gainer™ 20-20-20 is dissolved into a stock solution for injection into the irrigation system, do not exceed 1.5 lbs per gallon of water. If used at a rate of 5 pounds per acre, each 25 lb 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™ 20-20-20 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™ 20-20-20 is compatible most commonly used pesticides. However, it should not be used with lead arsenate,



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hydrated lime, lime sulfur, or other strongly alkaline materials. Do not use with amine forms of 2,4-D or with dicamba.

In all cases, a jar test is recommended to determine compatibility of Gainer™ 20-20-20 with other materials before proceeding with high volume mixing. When mixing use stainless steel, fiberglass, polyethylene, or other plastic materials.

Contents

Total Nitrogen (N).....	20.00%
2.40% Ammoniacal Nitrogen	
4.60% Nitrate Nitrogen	
13.00% Urea Nitrogen	
Available Phosphate (P ₂ O ₅).....	20.00%
Soluble Potash (K ₂ O).....	20.00%
Boron (B).....	0.02%
0.02% Soluble Boron	
Copper (Cu).....	0.05%
0.05% Chelated Copper	
Iron (Fe).....	0.10%
0.10% Chelated Iron (Fe)	
Manganese (Mn).....	0.05%
0.05% Chelated Manganese	
Molybdenum (Mo).....	0.0005%
0.0005% Soluble Molybdenum	
Zinc (Zn).....	0.05%
0.05% Chelated Zinc	
Chloride	less than 1%
Arsenic (As).....	<0.003%
Cadmium (Cd).....	<0.002%
Lead (Pb).....	<0.001%

Derived from: ammonium phosphate, potassium phosphate, potassium nitrate, urea, sodium borate, copper EDTA, iron EDTA, sodium molybdate, manganese EDTA and Zinc EDTA.

Technical Specifications

Product class	fertilizer
Appearance	clear, blue, odorless crystals
Specific Gravity	0.92 g/ml
Salt Index	52
Potential Acidity	555 lb calcium carbonate equivalent per ton
pH (1% solution)	4.7
Water Solubility	99.95% (% min)
Sieve Test (98% min)	-14 (1.41 mm) + 100 (0.18 mm)
Packaging	25 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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