

PEPTON | All Natural Fertilizer for Crop Production

14-0-1

What is Pepton 14-0-1?

Pepton 14-0-1 is an organic fertilizer with a high nutrient value, sourced from enzyme hydrolysate of amino acids creating a high percentage of mono- and dipeptides available for direct uptake in crop plants.

- Organically based amino acid hydrolysate is uniquely available for direct uptake through irrigation and foliar treatments.
 - Most other forms of amino acid-based fertilizers are treated with harsh chemicals making them unavailable for direct uptake.
- Organically based complex N form - helps improve the soil biome which is beneficial to soil microbes and nutrient uptake which promotes yield and growth.
- Unique water dispersible granule formula - easy to mix and apply through irrigation or foliar application. Perform a "jar test" before making any application. APC has tested several nutrients and pesticides for compatibility. Please check with your APC Representative for a listing.
- Compatible with the most common fertilizers and agrochemicals.
- Manufactured using enzymatic hydrolysis which allows maximum nutrient availability of nitrogenous building blocks directly to roots and leaves for immediate uptake.

When to Use Pepton 14-0-1

Pepton 14-0-1 is an ideal fertilizer for use in crop production to minimize the negative effects of stress on plants and increase production. Pepton is commonly used in stress situations including:

- Climatic stress such as water, light, salt content, pH, and high or low temperatures
- Physiological stress such as transplanting, root flush, sprouting, flowering and fruit set
- Other stress such as plant damage, multi-harvest damage or damage caused by pests

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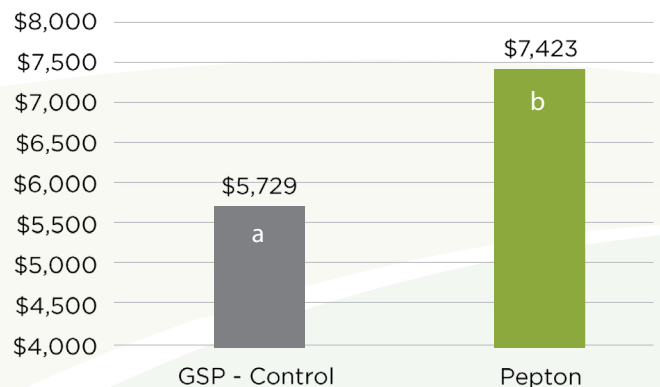


Key Benefits of Pepton 14-0-1

Pepton 14-0-1 has wide ranging benefits in crop production of all types. Its unique nutrient profile, including Hemic Iron, provides benefits that include:

- Increased root and plant growth
- Increased resistance to stress situations
- Feeding nutrient systems better, increased flowering and improved fruit set
- Improved nutrient availability which enables earlier harvesting and improves bulking and yield.
- Providing optimal nitrogenous building blocks during stress, thereby helping maximize yield, increasing size, weight and quality yield

Strawberries: California, 2022
Cumulative Marketable Yield
Increased Grower Return by 18.8%



ab=P<0.10
2022 David Holden, Holden Research and Consulting, California

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Innovation in Plant Nutrition

GENERAL DESCRIPTION

Pepton 14-0-1 is a micro-granulated formulation, organically based and of natural origin, obtained by hydrolysis and is fully dispersible in water.

Careful selection of high-quality raw material, the method used to obtain the raw material and its subsequent processing guarantee a finished product that meets the highest quality standards.

GUARANTEED ANALYSIS

| | |
|-----------------------------------|-------|
| Total Nitrogen (N) | 14% |
| - Ammoniacal Nitrogen | 0.5% |
| - Nitrate Nitrogen | 0.5% |
| - Other Water Soluble Nitrogen | 13% |
| Soluble Potash (K ₂ O) | 1% |
| Iron (Fe) | 0.27% |

Derived from: blood protein hydrolysate

TYPICAL ANALYSIS

| | |
|------------------|------------------|
| Molecular weight | < 10.000 Daltons |
| Granulation | < 1.5 mm |
| Solubility | 100% |
| Density | 0.53 kg/l. |
| Moisture | < 10.0% |
| Organic Carbon | 46% |
| Ratio C/N | 3.5 |
| pH | 7-9 |

APPLICATIONS

Pepton 14-0-1 is a natural fertilizer and a rich source of nutrients, specially organic nitrogen, potassium and iron.

Pepton 14-0-1 may be applied every two weeks to many horticultural and field crops, targeting periods of stress, such as early root flush, bloom, and fruit set, heat and drought stress, bulking and producing fruiting budwood.

Application Methods:

In foliar spray

Apply 0.9 pounds to 2.7 pounds/acre, using a concentration of 1.8% - 3.6% mixture applied to the foliage. These percentages have been exceeded before in the foliar application; however, it is highly recommended that a "jar test" is performed for more concentrated (above 2.5% and below 5.0%) applications.

Soil application (drip or other irrigation)

Apply 2 pounds/acre - 6 pounds/acre in irrigation water. An injection tank should be prepared, which contains 5-10% Pepton in water and acceptable surfactant and anti-foam as needed.

STANDARD PACKAGING

Pepton 14-0-1 is available in a new, attractive, brown-coloured micro-granulate formulation, making waste management easier and enhancing use efficiency. The product is sold in 33 lbs (15 kg) bags.

STORAGE

Store in a cool, dry place in a sealed container, avoiding exposure to direct sunlight.

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