

TRAINING MATERIAL

Title:

Struvite from waste water by "Canal de Isabel II S.A." process (ID:251)

Training:

What is the product?

A pure granular phosphorus fertilizer (99.6%) obtained from waste water (product derived from Crystal Green®)

Who is the vendor of the product?

Canal de Isabel II.

Canal de Isabel II is the Spanish public company that undertakes the management of the integral water cycle in almost the entire Region of Madrid, that is to say, it is responsible for the management of all the processes that allow for the adequate administration of water resources: collection, treatment, distribution, sanitation, purification and reuse.

Which other product are provided by the vendor?

None.

Which are the advantages of the product and the problems addressed?

The product's composition will not leach and run off into local waterways, and is proven to significantly reduce non-point source pollution, further protecting precious ecosystems from the effects of nutrient pollution.

The product helps grow turf more sustainably, with faster recovery time, improved stand and colour, and reduced leaching and runoff. Promotes vibrant turf that withstands the stress and wear and tear of daily use for season-to-season health.

The product benefits crops with better phosphate control and uptake for higher yields. Crystal Green has shown a positive yield response across a wide variety of crops. Its citrate-soluble, plant-available release prevents soil tie-up for maximized efficiency. It has been shown to reduce nutrient runoff, which is not only good for the economics of the process, but also for its sustainable agronomy.

Which is the nutrient content of the product?

N-P-K (%): 5-28-0

Mg (%): 10

Which equipment and methods can be used to apply the product?

It is the only fertilizer recovered with different marketable sizes (granulometries). The product can be dosed using the same agricultural machinery used for traditional fertilizers (Figure 1).

How to use the product?

Dosage: 0.100 t/ha

Cultivation methods: open field or greenhouse

Recommended crops: permanent grassland, cereals for the production of grain, root crops and plants harvested green from arable land by area. It is recommended to make only one dosage during sowing.

Which are the authority permits and in which EU countries?

Complies with EU Fertilizer Regulations. In the absence of approval of the framework for the new facultative European regulation on fertilising products. In many countries, struvite cannot currently be used as a biofertilizer, as it is classified as waste. So far, the product is accepted as a fertilizer in the UK and the Netherlands.

How much does it cost?

N/A.



Figure 1. Struvite from waste water by "Canal de Isabel II S.A." process

For more information: https://nutriman.net/farmer-platform/product/id_251