

TRAINING MATERIAL

Title:

Ammonium nitrate from liquid fraction of manure, digestate or other waste stream by "Detricon" process (ID:295)

Training:

What is the product?

The Detricon stripping/scrubbing recovers ammonia from liquid fraction of manure, digestate or other liquid waste streams with more than 0.1% ammonia nitrogen.

Who is the vendor of the product?

Detricon is a Belgian SME constructing environmental technologies for the valorisation of organic waste streams. The focus lies on the nutrient recovery out of manure and digestate, producing 'Green Fertilizers' for local use. It aims to reduce the energy consumed for fertilizer production and transportation, giving farmers a cost equivalent alternative for making their land fertile.

Which other product are provided by the vendor?

None.

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

This technical pure product is odourless and colourless and suitable for replacing mineral fertilizer in agriculture. Stripping/scrubbing by Detricon is an energy efficient and economic interesting technology to produce locally a pure nitrogen fertilizer without other nutrients (50% slow, 50% fast release of the nutrients).

Which is the nutrient content of the product?

The produced liquid ammonium nitrate has a ratio of 50/50 ammonia and nitrate. The N-P-K (%) ratio is 18-0-0 or 10-0-0.

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

The liquid fertilizer has to be applied as other chemical fertilizers, by adapted machinery for applying small doses of fertilizers. Application before or at moment of seeding/planting.

How to use the product?

Ammonium nitrate from Detricon technology can be used in open field crops or greenhouse crops, such as, corn, grass, vegetables, with an application dose of 0.5-1 ton/ha. Exact dose depends on crop demand. Special attention goes to foliar application: spraying can give leaf damage. Therefore it is recommended to inject it directly into the soil.

Which are the authority permits and in which EU countries?

Detricon has a EU patent pending of their stripping/scrubbing technology.

How much does it cost?

The price varies between 0.65-0.75 euro/kg N.



For more information: https://nutriman.net/farmer-platform/product/id_295