

TRAINING MATERIAL

Title:

Urine from calves manure by “Geamix” separation at source (ID:591)

Training:

What is the product?

The urine is produced by separation at source of solid manure and urine. It is a liquid organic fertilizer.

Who is the vendor of the product?

Geamix is the vendors name of calf breeder Stefan Thelosen in the Netherlands.

Short presentation of the vendor:

The Thelosen family is building a new stable for veal calves. The aim is to achieve emission reduction by separation at the source and also to develop high-quality manure streams that are valued regionally as a substitute for chemical fertilizer and dry manure pellets (circular agriculture).

Which are the advantages of the product?

- Potential RENURE fertilizer
- Natural product
- Low in phosphate
- High N/K ratio

Which are the problems addressed?

In order to bring considerable quantities of nutritional elements, it is necessary to transport high volumes of the product, taking note of the fact that it is characterized by a low concentration of N, P, K in comparison with mineral fertilizer.

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

The product can be applied before sowing or planting of the crops with the same machines which are now being used for spreading slurry or liquid manure. During the cultivation of the crops the product can be applied with precision fertilising equipment. The use of low emission application techniques is compulsory to prevent ammonia volatilization.

Which is the nutrient content of the product?

- Liquid organic fertilizer
- Dry matter: 27,4 g/kg
- Organic matter: 7,4 g/kg
- N: 4,3 g/kg
- P₂O₅: 0,1 g/kg
- K₂O: 9,6 g/kg

Urine is a natural product. Agronomic values may vary slightly. The average values were calculated based on various analyses.

How to use the product?

The product can be applied in open field cultivation. Recommended crops are: grassland, arable crops, horticulture. Application doses depend on crop application rates. Currently max 170 kg N/ha as livestock manure (230-250 kg N/ha for derogation farms in NL), potential RENURE fertilizer.

Which are the authority permits and in which EU countries?

The urine doesn't meet the CE-criteria from Regulation EU 2019/1009.

How much does it cost?

The fertilizer can be locally used at the cost of approximately €0/ha.



For more information: https://nutriman.net/farmer-platform/product/id_591