

COMPOST FROM ALGAE AND CATTLE MANURE BY LOCAL COMPOSTING PROCESS

Keywords: compost – soil improver – cattle manure – equine manure - algae

Key facts:

- **Product Category:** PFC 3(A) : organic soil improver.
- **Input material:** Cattle manure, Equine manure, straw and algae
- **General appearance:** black brown solid with fibrous pieces
- **Nutrient Content (N-P-K %):** 0.8 – 0.71 – 1.82
- **Product status:** available on the market
 - **Limitation of application:** if use in an area sensitive to nitrogen or phosphorus, according to the local regulation from directives 2000/60/CE and 91/676/CEE
- **Permit availability:** French standard NF U44-051
- **Geographical area:** France (New Aquitania)
- **Price range:** 25 €/ton



Summary: Max 1400 character

According to its experience of providing fertilization works, the company "SARL Gautronneau" decided to offer its customers a new kind of organic soil improver with adding algae to manure to get a humifiable product.

Made on an outdoor platform, the raw material is managed by swathing, with turning by towed turner (swathe height : about 1.40 m) three times.

The temperature rise comes from the micro-biomass aerobic activity (bacteria, fungi, yeast...) and is maintained above 50°C for at least 4-5 weeks. After several months for maturation, the compost has a 47 % (RM) of dry matter and 14% (RM) of organic matter.

How to use:

- **Type of farming:** organic and conventional farming
- **Cultivation methos:** open field, greenhouse
- **Recommended crops:** Wheat, Barley, Corn, Rape, Sunflower, Vegetables, Grapes
- **Application doses :** from 10 t/ha up to 25 t/ha

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Soil improver from cattle and equine manures, straw and algae

Key product features:

- Product to increase soil humus and soil C content : 14,6% (DM) of C content
- C/N ration = 8,5
- pH = 8,9
- Input of Ca, Mg and S : 64 kg/ton of CaO, 6 kg/ton of S and 5 kg/ton of MgO.

Key product benefits:

- Product usable in organic farming
 - Odorless product thanks to temperature monitoring and maturation time
 - Easy to spread product
 - Low C/N ratio :the product is well-stabilized but not locked and is able to increase soil fertility
 - Improving effect on acid soil.

Competitive position and advantages:

Why this product is best for solving nutrient recovery problems?

The manure and algae compost of SARL Gautronneau is a balanced product which use allows to increase C storage in soil - about 700 kg C/ha for a 10 tons/ha input - but also the soil ability to feed crops – N supply from 11 kg N/ha up to 33 kg N/ha for a 10 tons/ha input depending on the climatic year.

The composting way ensures the product's sanitization and allows to use the product with some risky crops like vegetables.

