



PRODUCT INFO  
& DATASHEET

## NATURACTIV NPK 4.3.3 + 1 MgO GUARANTEED QUALITY & SAFETY

### **1/ NATURACTIV = High quality fertiliser**

Organic matter plays an important role in the physical, chemical and biological condition of the soil. A good soil structure optimises water availability and air distribution, which stimulates root activity. To maintain crop yields, mineral fertilisers are used but they lose efficiency when the organic material of the soil has become too low. High quality organic fertilisers, such as NATURACTIV, maintain organic content and improve mineral fertiliser efficiency.

Nowadays, there is a worldwide increasing demand for high quality, easy to use, organic fertilisers. Through investment in modern equipment and high skilled production teams, now our company offers an easy to use standard product.

NATURACTIV is produced in a modern factory where the production process is computer controlled. Our organic fertiliser is produced from selected raw materials. For NATURACTIV we only use manure; neither vegetable products nor any other waste materials are incorporated. The manure is processed in order to obtain a stable, weed seeds and pathogen free product. The factory is ISO 9002 and 14001 certified.

### **2/ NATURACTIV = Quality characteristics**

NATURACTIV is produced by up-to-date technology under control of a highly skilled production team. The raw material is brought to our factory by trailers. Trained workers will control the raw material before it enters our installations. If the material does not fit our standards it will not be accepted.

Once in our factory, we mix the material from the different suppliers or batches. A standardized starting material gives no problems in order to standardise the final product.

After our first processing of mixing and neutralising, the product enters into specially developed tunnels to be fermented. This fermentation is computer controlled regarding temperature and oxygen demand, in order to stabilize the organic material. Two kilo of starting prime product will yield one and a half kilo NATURACTIV.

When the product leaves the fermentation process it is dehydrated and physically processed. The product is now presented in a pellet, to be easily applied in the field. NATURACTIV can be spread over the land using the same machine as for mineral fertiliser. NATURACTIV is less dense than mineral fertilisers: a special sieve is used before packing the product preventing particles smaller than 2 mm (dust) to be incorporated in the commercial product. NATURACTIV packed in 25 kg plastic bags and stored in a cool and dry place can be maintained for a long time without loss of quality. (shelf life min. 3 years)

NATURACTIV applied in the soil has a regular function for the soil minerals. When you have problems of blocked minerals you will notice an excellent result on crop yield and quality. You will see both, a de-blocking and a regulated effect at the same time. Farmers have noticed this effect on their invoices on fertilisation products. Minerals do not get lost by washing and they are not blocked but available to the crop.

NATURACTIV has a low C/N ratio. This means that they free nitrogen when soil microorganisms decompose the organic material. The soil organisms will also decompose organic material with a high C/N ratio. Decomposing or mineralisation depends on temperature, moisture and aeration of the soil. When temperature runs up in spring mineralisation will speed up when plant grows.

When you apply NATURACTIV, nitrogen will be available at this moment because of the mineralising of the product. When an ordinary organic fertiliser is used, plant growth will be negatively affected by low nitrogen availability.

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Microorganism demanding air from outside will decompose the organic material in NATURACTIV. This will aerate the soil and stimulate root activity. Organic material is also important for moisture holding in the soil and will prevent erosion. NATURACTIV absorbs 3 times its weight in moisture while the pellet will break down. Farmers have noticed this when they apply the product localised filling a hole. After the growing season a network of roots is observed in the place where they brought NATURACTIV. This is also the best way to show that NATURACTIV does not burn dead the roots.

NATURACTIV, SICO's main organic fertiliser, is an easy to use basic organic fertiliser. The content of stable organic material is very high combined with a relatively high NPK content. Additional features being a 100% natural product, which maintains trace elements, is important for enzyme and photoelectric functions of crop (see analyses).

**NATURACTIV is a complete basic organic fertiliser with proven yield.** A three-year trial project in Spain showed no doubts about the positive effects of NATURACTIV on crop yield and quality. (test results on demand)

### **3/ NATURACTIV = Traceability**

We have introduced a traceability system. In practice, this system means that the materials used in the production process and during logistic operations can be followed step by step. The system enables us to monitor the quality from the raw materials to the product delivered to the customer.

The system works as follows: during the process codes are assigned to each production batch of NATURACTIV; the batch number then follows the ingredients/product on the journey to the place of administration. Samples are taken from each batch, and these samples undergo a general quality analysis. The results of these analyses are linked to the batch codes. If necessary, additional and more specific analyses can be performed on request, either during the production process or while packaging NATURACTIV. An example of such an analysis is testing to ensure that the produced is free of pathogens. In this case the batch number is also printed on the delivery receipt and the invoice. This form of traceability is an extra service, which we offer to our customers on request.

The EuroGAP standards and the requirements of some distribution chains can require registration of the products used during the production process. This often includes documenting the origin of the organic material and its sanitary quality. With a good traceability plan, like the one offered for NATURACTIV, the fruit and vegetable producer can demonstrate the composition, origin and sanitary quality of the organic fertiliser used. This is particularly important with regard to the absence of pathogens in NATURACTIV and for the natural origins of the product. At this time, a number of food distribution chains in the UK have already made our traceability plan a requirement to accept the use of NATURACTIV as an organic material.

SAP INTERNATIONAL CORPORATION (SICO) can provide 2 methods of traceability. The first method, which is also the most complicated and most expensive, is to follow the product from the organic raw material to the final product. We only offer this service to our customers if this strict requirement is necessary. After all, the quality control during the production process already provides sufficient guarantees. The product from each production batch is analysed to check its composition and confirm the absence of pathogens. Then the NATURACTIV is stored in bulk together with the other production batches. However, NATURACTIV that does not meet the defined quality standards is never allowed into this storage area.

The second method of traceability is to analyse samples during the packaging process or during transport to the customer. These analyses are carried out in accordance with the instructions of the NATURACTIV customer. In this case, batches of NATURACTIV are made, and a sample is takes from each batch and then analysed. A second sample is also taken from each batch, and stored for a certain period of time for any check analysis. Thanks to this second option combined with good quality control during the production process, most fruit and vegetable buyers accept the use of NATURACTIV.