

# reipa trading sa.

CH - 6934 BIOGGIO (TI) Switzerland P.O.Box 117

TEL. +41 91 605.49.34-35 FAX +41 91 605.53.69 e-mail: reipa@reipa.ch

---

## BIONATUR 5,5 - 2,5 - 1,5 (granulated)

Bionatur is produced through the fermentation of cereals with the aid of yeast (*S.Cerevisiae*) and mixed with organic liquid fertilizers, which are approved for organic farming. Partially desugarised molasses is then added to Bionatur. The yeast bio-mass and the sugar from the molasses lead to an intense stimulation of the soil microorganisms and there with contribute to the improvement of a healthy soil.

### **Applications for Bionatur**

Particularly suitable for application in arable crops, for all varieties of fruit and vegetables. Applicable for lawns as well as for balcony flowers and all varieties of ornamental plants and shrubs. The special composition brings balance in organic compound with constantly available nutrients, activates the bacterial dominated soil life and mobilizes bound nutrients as phosphorus and potassium.

### **Distinctive features of Bionatur:**

- Rapid initial impact combined with a long-lasting effect
- a high degree of plant tolerance Bionatur is able to cover the nitrogen requirements of even high demanding crops
- also well-suited for use as a garden fertilizer
- a pleasant smell (wood-bread)
- the use of exclusively vegetable, GMO-free raw materials
- approved for use as organic fertilizer in organic farming
- extended activity from the high organic compound improves the humification and the nutrient availability as well as buffering capacity in soil
- scientifically tested at the Research Institute of Organic Agriculture (FIBL Switzerland)
- unique in its composition and properties, Bionatur generates top quality and maximizes performance for yield and soil.

### **COMPOSITION**

Bionatur is produced from biomass through bioethanol fermentation with addition of blackstrap molasses. Especially valuable is the immense share of biomass in the yeast.

Raw material:

Dried distiller's grains with solubles (from wheat, corn, triticale) with blackstrap molasses

Dried distiller's grains with soluble (DDGS):

Is a by-product derived from the production of alcohol by means of distilling mash. It comprises of the following ingredients: wheat, corn, triticale, barley or other substances with sugar content. The end product is made by drying the residue in its entirety.

Blackstrap molasses:

During the course of the sugar extraction, the molasses is separated into fractions. Residual molasses represents the fraction with low sugar content.

**Information considering product's composition:**

Bionatur contains following nutrients.

**Based on dry matter (g/100g):**

Organic substance:	85%
--------------------	-----

**In terms of fresh mass (g/100g):**

Total nitrogen (N)	5,5%
Total phosphorus (P2O5)	2,5%
Total potassium oxide (K2 O)	1,5%

Standard values	Organic substance based on dry matter:	90,0 %
	Total nitrogen:	5,5 %
Analysis values	Total phosphorus (P2O5 in total):	2,5 %
<i>The analysis values are subject to natural fluctuations and, as such, are merely intended as guideline values.</i>	Potassium oxide (K2O in total):	1,5 %
	Bulk density:	550 g/l
	Dry matter:	min. 88,8 %
	Crude ash;	6,0 %
	Calcium oxide (CaO):	0,15%
	Magnesium oxide (MgO):	0,6 %
	Sodium oxide (NaO):	1,0 %
	Chloride-free:	< 0,5 %

**Details concerning storage and transport:**

Store in a cool and dry place

Delivery form: pellets, mealy, granulated, 2-7 mm, < 2mm

**Area of application/use:**

Application in agriculture as well as in vegetable gardening, fruit-growing and horticulture.

Approved for organic farming.

**Safety instructions:** Although Bionatur is biodegradable and does not require any special safety precautions when handled or in transit, there nevertheless exists the possibility of dust explosions.

**Customs tariff number:** 31010000

**Interesting facts about Bionatur:**

Organic farmers still face difficulties obtaining sufficient quantity of a low-cost but highly effective organic fertilizer. This is why it has set out to find a solution for this issue to be one of its main goals.

Classification: Purely vegetable organic fertilizer

Bionatur complies with the EU regulations (regulation 2092/91) for organic farming.

**Area of application:**

- in agriculture, for vegetable cultivation, fruit growing and viticulture

All information and advice in whatever form regarding possibilities of processing or using our products, as well as presentations or otherwise providing information - also in respects of possible rights of third parties - is given to the best of our knowledge on the basis of research work and experience. It is not, however, binding on us and all liability on our part is excluded. The purchaser is not released from the burden of carrying out his own tests and experiments. Furthermore, our sales and delivery conditions will apply accordingly.

Reipa Trading SA  
 Contrada alla Cantina 1  
 CH-6934 BIOGGIO  
 Tel: 0041 91 6054934  
 Fax: 0041 91 6055963