



made in Germany



## SOIL CONDITIONER & BIOSTIMULANT

**PERLHUMUS® Granules** is a granulated high quality natural humic acid soil conditioner based on German Leonardite. **PERLHUMUS® Granules** consists of immediately available nutrient humus and a high quantity of permanent humus, which is stable against microbial decomposition in the soil, contributing to long term increases in soil fertility. The special advantages of **PERLHUMUS® Granules** as a soil conditioner are its positive influence on plant growth and the improved resistance of plants against stress factors (drought, salinity, and pesticides). It increases the soil cation exchange capacity and soil buffering capacity as well as the soil water holding capacity. The positive effect of Perlhumus on soil life, soil structure and the rhizosphere can be seen after the first application. **PERLHUMUS® Granules** can be used in a wide variety of applications and should be applied to the ground using non-hygroscopic equipment.

## BENEFITS & RECOMMENDED APPLICATION

- Provides stable humus to the soil and stimulates CO<sub>2</sub> sequestration
- Improves the soil structure and aeration of the soil, especially in sandy and clay soils
- Increases availability of soil nutrients and improves soil water holding capacity
- Improves the buffering capacity of soils
- Increases fertilizer efficiency and plant productivity
- Helps to neutralize toxins and sequesters heavy metals in the soil
- Promotes root respiration and development, especially vertically

### FIELDS OF APPLICATION

- Agriculture
- Vegetable Production
- Fruit Production
- Turf and Landscaping

### RECOMMENDED APPLICATION RATES\*

Soil	400 – 600 kg/ha during seed bed and general soil preparation
Substrates	1 – 15 kg/m <sup>3</sup> in organic or mineral substrates
Landscaping	10 – 15 kg/100 m <sup>2</sup> during planting, seed bed preparation and lawn care
Orchards	0,5 – 2 kg/planting hole or 10 – 15 kg/100 m <sup>2</sup> together with the first fertilizer application evenly over the tree shade area

\* These are standard recommendations that can vary according to soil properties, cultivated crop and local system conditions.

### INHERENT COMPOSITION

(Typical values based on Dry Matter)

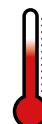
Humic Substances <sup>1</sup>	60 %	Organic Substance	> 80 %
Total Humic Acids <sup>1</sup>	38 – 39 %	pH – value	5 – 6
Free Humic Acid <sup>1</sup>	34 %	Bulk Density	0.6 – 0.7 kg/L
Hydrophobic Fulvic Acid <sup>2</sup>	4 – 5 %	Particle size	1 – 6 mm
Dry Matter	68 – 72 %		

<sup>1</sup> according to ISO 5073

<sup>2</sup> according to ISO 19822 | HPTA | AAPFCO | IHSS Analysis method

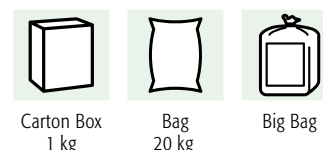
### STORAGE

Store in a dry place, protected from frost, heat and direct sunlight.



STORE OUT OF THE REACH OF CHILDREN

### DELIVERY SPECS



German technology

Administration & Distribution: **HUMINTECH GMBH**

Am Pösenberg 9 – 13 • 41517 Grevenbroich / Germany • E-Mail: info@humintech.com • Internet: www.humintech.com

