

HS-300 BIO

LEONARDITE COMPLETELY NATURAL AND FULLY ORGANIC



Made in Germany



BIOSTIMULANT WITH NATURAL HUMIC ACIDS

HS[®]-300 BIO BASIC is a liquid soil conditioner based on high quality micronized German Leonardite that contains a high proportion of humic substances. Produced via a mechanical micronizing process, the humic particles (< 5 µm) are held in aqueous suspension. As a result, the humic acids remain as humic substances molecules, which endure in the soil for a longer period, raising organic matter levels over time. **HS[®]-300 BIO BASIC** improves the structure, the buffer capacity and nutrient exchange capacity of soils. It has a low precipitation reactivity and a low pH-value of 4 which allows for good compatibility with most pesticides and fertilizers. (Pre-mixing test advised). **HS[®]-300 BIO BASIC** stimulates root growth in soils and sustainably improves the soil structure. It can be applied in fertigation and hydroponic systems or sprayed using conventional foliar or sprinkler techniques.

BENEFITS & RECOMMENDED APPLICATION

- Supports the formation of clay-humus complexes and soil aggregation and reduces soil erosion
- Increases the quantity and the quality of yields through the full utilization of potential nutrients in the soil
- It has a very high technical and chemical compatibility with liquid fertilizers and plant protective agents (pre-mixing test advised)
- Increases the biological activity and cation exchange capacity (CEC) in soils
- Increases biomass production and stimulates CO₂ sequestration in soils

FIELDS OF APPLICATION

- Agriculture
- Vegetable Production
- Fruit Production
- Substrate Cultivation
- Hydroponics
- Turf grass and Landscaping
- Seed Treatment

RECOMMENDED APPLICATION RATES *

Soil	3 – 8 L/ha or divided into several applications (1 – 2 L/ha/ha) during vegetation period
Foliar	50 – 75 ml/100 L water every 2 – 3 weeks over the vegetation period
Substrates	0.3 – 0.5 L/m ³
Seeds	0.5 % or 500 mL/100 kg seed dressing according to thousand grain weight (T.G.W.)
Hydroponics	30 – 50 ml/1000 L nutrient solution during the cultivation cycle

* Standard recommendations that can vary according to soil properties, cultivated crop and local application conditions.

SHAKE WELL BEFORE USE

Please remind to shake well the bottle or container prepared mix well before use.



BLEND USE NOTICE

Before use in combination with other agents, first preparation of a sample mix in a small scale is recommended to avoid any risk of flocculation.



PREPARATION OF MIXTURE

Make sure sufficient amount of solution is added to half water filled tank while agitator is running. Add additional substances or crop protection agents before filling the tank fully with water.



INHERENT COMPOSITION (Typical values based on Fresh Matter)

Total Humic Acids ^{1/2}	28 %	Organic Matter	28 %
Humic Acid ¹	24 %	pH	3.5 – 4.5
Humic Acid ²	17 – 18 %	Density	1.13 g/cm ³
Fulvic Acid ²	4 – 5 %	Particle Sizes	< 5 µm
Dry Matter	27 – 30 %		

¹ according to CDFA

² according to ISO 19822 | HPTA | AAPFCO | IHSS Analysis method

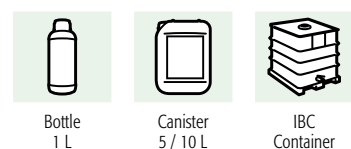
CONDITIONS FOR SAFE HANDLING AND STORAGE

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

KEEP OUT OF THE REACH OF CHILDREN, PETS AND FOOD



DELIVERY SPECS



German technology

Administration & Distribution: **HUMINTECH GMBH**

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



HS – 300 BIO LIQUID IS A REGISTERED TRADEMARK OF HUMINTECH GMBH / TECH – EN – 101.023 | *THE PRODUCT CLASSIFICATION MAY DIFFER IN CONSIDERATION WITH THE REGIONAL LEGISLATIONS*