

LIQUID**DESCRIPTION**

LIQHUMUS® 18 is a potassium humate suspension with 18% bioactive humic and fulvic acid. It is a water soluble high quality plant growth stimulant and soil conditioner and can be applied for agricultural and horticultural plants, fruit trees, ornamental plants, turf and cereals for soil and foliar application. Furthermore it is a permanent humic substance which cannot be easily decomposed by microorganisms of the soil. It can be used alone or mixed with most fertilizers.

ORIGIN

LIQHUMUS® 18 is obtained through alkaline extraction from German Leonardite (highly oxidized lignite). It arises at the chemical and biological humification of plant and organic matter, by the biological activity and geological processes. It provides a very high content of humic and fulvic acids and natural biologically active trace elements.

**COMPOSITION:** (Typical analysis)

Potassium Humates	>18%
Potassium (K ₂ O)	2.5%
Iron (Fe)	0.2%
Density	1.12 kg/L
Particle size	<100 microns
Solubility in water	100%
CEC	400-600 meq/100g
pH-value	9-10.5
Product type	Liquid

FORM OF DELIVERY

IBC Cont.

Can
5/10/20LBottle
1L

REGISTERED AT:
BBA - Federal Biological
Research Center for
Agriculture and Forestry

**Organic Soil Conditioner**

18% Liquid Potassium Salts of Humic Acids FOR SOIL AND FOLIAR APPLICATION

BENEFITS

LIQHUMUS® 18 is a bioactive growth stimulant and soil conditioner with 18% humic acids, especially for sandy and clay soils. It can be applied to all agricultural and horticultural plants. It can enhance the performance of fertilizers and reduces input costs.

- Stimulates plant growth by an increased biomass production
- Increases yield and improves quality of plants
- Activates plant enzymes
- Improves the soil structure and the water holding capacity
- Increases and stimulates beneficial soil microorganisms
- Enhances the soil cation exchange capacity (CEC)

- Increases the effectiveness of fertilizers and reduces nutrient leaching, especially of nitrate
- Promotes root development
- Increases the permeability of cell-membranes in the roots and increases nutrient uptake
- Acts as a natural chelator for micronutrients in alkaline soils and increases their availability for plants
- Decreases stress by drought and salinity as well as stress by the application of plant treatment
- Increases the germination of seeds and enhances development of radicles
- Reduces the residues of herbicides and toxic substances in soils
- Delays the decomposition of ultraviolet unstable agents

DIRECTION FOR USE *	LIQHUMUS® 18	
CROP	OBJECTIVE	RECOMMENDED APPLICATION
In all crops	Soil conditioning, increase of soil fertility and fertilizer utilization	25-30 L/ha divided into several doses (5-10 L/ha)
Vegetables in green houses (tomatoes, bell peppers, eggplants, cucumbers, zucchini)	Soil conditioning, increase of soil fertility and fertilizer utilization	35-45 L/ha divided into several doses (5-10 L/ha) during the season
Horticultural trees (kiwi, citrus groves, banana, wine grapes stone fruit)	Soil conditioning, root growth stimulation, increase of soil fertility and fertilizer utilization	35-45 L/ha divided into several doses (5-10 L/ha) during the season
Open field vegetables	Soil conditioning, root growth stimulation, increase of soil fertility and fertilizer utilization	25-30 L/ha divided into several doses (5-10 L/ha) during the season and fertilizer application
Cereals (wheat, rye, barley, oat, maize, rice, etc.), potatoes, beans, peanuts	Soil conditioning, root growth stimulation, increase of soil fertility and fertilizer utilization	25-30 L/ha divided into several doses (5-10 L/ha) during the season and fertilizer application
Ornamental plants and forest nursery, landscaping, turf grass general)	Soil conditioning, root growth stimulation, increase of soil fertility and fertilizer utilization	35-45 L/ha divided into several doses (5-10 L/ha) during the season or 5 L/m during the preparation of substrates
Foliar application	Growth stimulation, increase of foliar fertilizer penetration	0.700-1.5 L/1000 L water every two weeks during the season
Seed treatment	Stimulation of seed germination and root growth	5 L/100 Kg seeds
UV protection	Prevention of decomposition of ultraviolet unstable agents	0.5% (1 L/200 L water/ha)

* This recommendation could be varied according to the soil characteristics and farm conditions

Administration & Distribution: Humintech GmbH

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