

## Technical Data Sheet

### POLYSORB

Micro

Medium

Water and nutrient retaining soil conditioners to improve the water and nutrient availability for plants in soils and substrates for arable crops, vegetable, fruit, and wine production, as well as in forestry, gardening and landscaping.

### Product properties

**POLYSORB** increases the plant available water holding capacity, aeration balance and structure of soils, substrates and potting mixes.

This is because **POLYSORB** acts as a water trap in the root zone of the plant by absorbing big quantities of water and plant nutrients dissolved in it. At the same time, it is preventing water and nutrient losses due to deep percolation, evaporation and leaching. In this way it increases the plant available water holding capacity, cation exchange capacity, aeration balance and structure of arable soils, plant substrates and potting mixes. Consequently, water and nutrients are available to the plant for a longer time period, resulting in stronger and healthier plant growth even under hot and dry climatic conditions.

The so obtained increase of the water and nutrient use efficiency allows a reduction of the irrigation frequency combined with lower fertilizer application rates and thus fertilizer and irrigation costs.

Furthermore, **POLYSORB** increases soil porosity and enhances the water infiltration rate of soil to an extent, that surface water runs off and soil erosion can be significantly reduced.

### Performance parameters

Physical properties	POLYSORB Micro POLYSORB Medium
Basic components	Crosslinked Potassium Polyacrylate
Appearance	Free-flowing, white granules
Particle size distribution [mm] – Test method WSP 220.2(05)	Micro: 0,18 - 0,85 Medium: 0,85 - 2.0
Bulk density [g/l]	Micro: 600 +/- 100 Medium: 550 +/- 100
Solubility	Insoluble in water - swell to gel upon contact with aqueous solutions
pH-value (1g/l H <sub>2</sub> O)	6.0 - 8.0
Water content	< 8 %
Absorption - under free swelling conditions	
1) Deionized water - Test method: WSP 242.2(05)	> 300 [g/g]
2) Tap-Water (dH 0 11°) - Test method: WSP 242.2(05)	> 180 [g/g]
3) Soil solution - LUFA standard soil 2.1 + deionized water	> 230 [g/g]
Toxicology / Ecology - OECD test methods	Nontoxic for humans, plants and soil organisms and does not pollute ground water
Residual monomers acrylic acid [mg/kg] – Test method WSP 210.2(04)	< 600 [mg/kg]

## Packaging

**POLYSORB Micro** and **Medium** are available in the following packaging:

Micro	20 kg bag <sup>1)</sup> , 600 kg pallet (30 x 20 kg)
Medium	15 kg bag <sup>1)</sup> , 600 kg pallet (40 x 15 kg)

<sup>1)</sup> Paper bag with polyethylene liners

## Customs tariff number:

3906 90 90

## Storage

It is recommended to store **POLYSORB** in closed bags, at room temperature and under dry and sun-protected conditions.

## Safety instructions

Products contain polymers. Keep out of reach and sight of children and pets. Do not ingest or pour it down a drain. During application nearby a surface water a minimum distance of 10 m must be maintained. All safety instructions according to VO (EG) Nr. 1272/2008 and the safety data sheet on [www.greenlegacy.at/download-data](http://www.greenlegacy.at/download-data).

## Hazardous goods classification

Information concerning

- classification and labelling in conformity with the regulations for the transport of hazardous goods.
- protective measures for storage and handling.
- measures in case of accidents and fire.
- ecological and toxicity effects.

is given in our material safety data sheets on [www.greenlegacy.at/download-data](http://www.greenlegacy.at/download-data).

For further information please visit our website [www.greenlegacy.at](http://www.greenlegacy.at) or e-mail us at [office@greenlegacy.at](mailto:office@greenlegacy.at).

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Green Legacy GmbH

Rechnungsadresse

Stadlauer Str. 60/1/3

A-1220 Wien

Österreich

Tel.: +43 669 10977480

Postadresse

Gewerbering 11/2

A-2020 Hollabrunn

Österreich

Tel.: +43 664 1241020