

## **Material Safety Data Sheet for Natural Power Products**

### **GENERAL INFORMATION**

*Product Name:* **Advanced Natural Power Root Stimulator**  
*Date revised:* 20-08-2009  
*Manufactured by:* Advanced Hydroponics of Holland B.V.  
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**Advanced Natural Power Root Stimulator** is a 100% natural extract based on a mix of different seaweeds with root growth stimulating properties, thus promoting a quick start of the growth cycle

**Advanced Natural Power Root Stimulator** is not a fertilizer, it is a so-called biostimulant. It does not contain micro-organisms. At very low concentrations, biostimulants improve essential biochemical processes in plant and soil, thus improving plant growth and resistance to stress. Biostimulants are thus not a replacement for fertilizers, dung or other sources of minerals, they just allow the plant to perform better.

This cold extracted product is not amended with minerals like many other 'green' extracts and thus it contains mainly organic compounds like aminoacids, enzymes, auxins, cytokinins, gibberellins, betaines, alginates, various sugars, etc.

At low levels of application the extract strongly stimulates initial growth and development of young plants through a remarkable positive effect on root growth and root health. Plant nutrient uptake improves with the application of the extract and protein, carbohydrate and chlorophyll production is enhanced.

In the Netherlands, **Advanced Natural Power Root Stimulator** is successfully used in professional intensive indoors and outdoors horticulture (vegetables,

fruits, bulbs, flowers), on recreation areas (golf, soccer, parks) and in normal and landscape gardens.

**Ingredients**

Mixture of specific seaweeds

**Form**

Finely filtered solutions with pH 4.5 - 5.5

**Function**

Stimulation of root and initial shoot growth

**Application methods**

Spraying, application through irrigation systems or soaking (roots, seeds)

**Dosage**

Foliar application: first application 10-20 L/ha, following applications 5 L/ha

Irrigation system: first application 20 L/ha, following applications 10 L/ha

Soaking: Use a dilution of 1:100 (1%). Soak seeds for several hours.

**Application interval**

Bi-weekly during initial growth phase (root growth)

**Package**

0,25 / 0,5 / 1 and 5 Litre bottles/can.

**Storage**

As this is a 100% natural product, storability is strongly reduced once the can is opened.

Guaranteed analysis **Advanced Natural Power Root Stimulator** in a 1:2 CaCl<sub>2</sub> extract

<b>Ec (mS/cm)</b>	7.5 - 8.5
<b>pH-KCl</b>	4,5 - 5,5

	mmol/l	μmol/ l	mg/l	μg/l
<b>NH<sub>4</sub></b>	9.5		171	
<b>NO<sub>3</sub></b>	0.4		25	
<b>P</b>	1.75		54	
<b>K</b>	28.8		1126	
<b>Ca</b>	4.3		172	
<b>Mg</b>	1.8		44	
<b>SO<sub>4</sub></b>	57.9		5562	
<b>Fe</b>		53		2960
<b>Mn</b>		8		440
<b>Zn</b>		14		915
<b>B</b>		22		238
<b>Cu</b>		2.7		172
<b>Mo</b>		0.1		10
<b>Si</b>	0.38		11	
<b>HCO<sub>3</sub></b>	61.3		3739	
<b>Na</b>	33.4		768	
<b>Cl</b>	6.5		230	

**Legislation:**

**All compounds in this product are allowed for use in organic agriculture according EU regulation 2092/91 Annex II**