

1. Identification of the substance/preparation and company

Trade name: Natural Power Final Solution
 Supplier details: Advanced Hydroponics of Holland
 Hornweg 316
 NL-1432 GT Aalsmeer
 Tel.: +31 297 363404
 Fax : +31 297 363401

In emergency, information can be obtained from:

Dr. ir. N.C. Stutterheim. +31 (0)6 22698853

2. Composition / Information on constituents

Filtered water extract made from:

10% (w/w) *Fucus vesiculosus* (seaweed)
 10% (w/w) *Ascophyllum nodosum* (seaweed)
 10% (w/w) Fishmeal
 10% (w/w) Cane molasses
 < 0.3% (w/w) Formic acid

Ec (mS/cm) 10 - 12
 pH-H₂O 4

	mmol /l	mg/l		µmol/l	µg/l
NH ₄	4.9	88	Fe	44.0	2457
NO ₃	0.4	25	Mn	13.0	714
P	1.03	32	Zn	11.0	719
K	34.2	1337	B	37.0	400
Ca	3.2	128	Cu	2.9	184
Mg	1.6	39	Mo	0.1	10
SO ₄	80.3	77.14			
Si	0.24	7			
HCO ₃	45.3	5514			
Na	31.0	1000			
Cl	10.2	386			

3. Potential hazards

Description of hazard:

None

Special hints concerning hazards for the human and environment:

So far as the usual regulations of industrial hygiene are adhered to, the product handling does not involve any appreciable risk. Neither involves the product any risk of fire or explosion.

Material Safety Data Sheet (MSDS) acc, to Guideline 93/112/EC

Date: 17.06.2006

page 2 of 5

Trade name: Natural Power Final Solution
Supplier details: Advanced Hydroponics of Holland
Hornweg 316
NL-1432 GT Aalsmeer

4. First aid measures

General:

Inhalation:

If the product has come into contact with he skin:

If the product has come into contact with the eyes:

If the product is ingested:

Instruction for the physician:

General instructions are not necessary.
Avoid extensive inhalation, although no adverse effects from inhalation have been observed or reported.
Wash affected area with water and soap.
Rinse the eyes with lukewarm water, with eyelid opened.
Keep cool. Consult a physician and make this Safety Data Sheet available.
Specific measures to be taken are not known or documented. Carry out a symptomatic therapy.

5. Fire-fighting measuring

Not applicable because the product is not inflammable.

6. Measures to be taken in case of unintentional release

Personal precautionary measures:

Cleaning/picking-up method:

None

Vacuum or sweep up large quantities of the material and dispose according local regulations.

7. Handling and storage

Handling:

Storage:

When the products is handled in unpacked condition, its quality or purity may be impaired. Agrobio Products disclaims any liability once the original package has been opened.
Store the product in a cool place protected from frost. If not used, keep the container closed. The plastic used as container materials are resistant (HDPE).

Material Safety Data Sheet (MSDS) acc. to Guideline 93/112/EC**Date: 17.06.2006****page 3 of 5**

Trade name: Natural Power Final Solution
Supplier details: Advanced Hydroponics of Holland
Hornweg 316
NL-1432 GT Aalsmeer

8. Exposure control and personal protective equipment

General protective and hygienic measures: Wash your hands after the work and before the breaks. Observe the rules of industrial hygiene.

Respiratory protection: During spraying use appropriate masks

Hand protection: Wear rubber protective gloves to avoid a repeated contact with the skin.

Eye protection: Wear protective goggles in case of potential contact with the eyes, e.g. by splashing, spraying, etc.

Body protection: Wear suitable work clothing if there is a risk of splashing or in case of potential contact with the body.

9. Physical and chemical properties

Appearance:
Shape: Liquid
Odor: Atypical

Safety data

	Value/Range	Unit
<i>Change of state:</i>	N.A.	
<i>Boiling point:</i>	100	°C
<i>Melting point:</i>	N.A.	
<i>Flash point:</i>	N.A.	
<i>Inflammability:</i>	N.A.	
<i>Explosion hazard:</i>	N.A.	
<i>Self-ignition:</i>	N.A.	
<i>Fire-promoting properties:</i>	None	
<i>Vapour pressure at 20 °C</i>	2.34E3	Pa
<i>Density:</i>	1	kg dm ⁻³
<i>Solubility in water:</i>	Soluble	
<i>Solubility in organic solvents:</i>	Soluble	
<i>pH value:</i>	4	
<i>Viscosity at 20 °C:</i>	1E-3	Pa s
<i>Thermal conductivity at 20 °C:</i>	0.60	W m ⁻¹ K ⁻¹
<i>Specific electrical resistance:</i>	0.125	cm/mS

Material Safety Data Sheet (MSDS) acc. to Guideline 93/112/EC

Date: 17.06.2006

page 4 of 5

Trade name: Natural Power Final Solution
Supplier details: Advanced Hydroponics of Holland
Hornweg 316
NL-1432 GT Aalsmeer

10. Stability and reactivity

<i>Conditions to be avoided:</i>	Once opened, the product has limited storability
<i>Substances to be avoided:</i>	None
<i>Hazardous decomposition products:</i>	None

11. Toxicological information

<i>Acute toxicity:</i>	The preparation itself has not been tested.
<i>Assessment based on raw materials:</i>	Exposure quantities are significantly below acute toxicity limits even when complete absorption is assumed.
<i>Experience gained in practice; effects on humans:</i>	No adverse health effect has been observed or reported.
<i>Inhalation:</i>	No adverse health effect has been observed or reported.
<i>Ingestion:</i>	No adverse health effect has been observed or reported.
<i>Skin:</i>	Some skin irritation is possible in case of continuous or repeated contact with the skin.
<i>Eyes:</i>	Direct contact with the surface of the eye may cause irritation. Eye protection is then recommended

12. Ecological information

This product is dissolves in water. Ecologically sound, if applied at recommended doses.

13. Instruction for disposal

<i>Recommendation:</i>	Recycling through composting should be given preference over disposal. If recycling is not possible, the product should be disposed according to the locally valid laws on waste disposal and regulations (the competent authorities should be able to give the necessary information).
------------------------	---

Material Safety Data Sheet (MSDS) acc, to Guideline 93/112/EC

Date: 17.06.2006

page 5 of 5

<i>Trade name:</i>	Natural Power Final Solution
<i>Supplier details:</i>	Advanced Hydroponics of Holland
	Hornweg 316
	NL-1432 GT <u>Aalsmeer</u>

14. Transport information

No special instructions. The product is from natural origin. No ADR, UN, CAS or Class numbers required. TARIC-code: 3101 0000 00.

16. Other data

None



Material Safety Data Sheet for Natural Power Products

GENERAL INFORMATION

Product Name: **Advanced Natural Power Final Solution**
Date revised: 20-08-2009
Manufactured by: Advanced Hydroponics of Holland B.V.
Oosteinderweg 303-B
1432 AW Aalsmeer
The Netherlands
info@advancedhydro.com

Advanced Natural Power Final Solution stimulates the reproductive growth of fruits and vegetables and can be used for increasing bacterial soil life.

Advanced Natural Power Final Solution 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.

Advanced Natural Power Final Solution is a multi-compound extract derived from several seaweed-species enriched with complexed carbohydrates. The extract especially serves to increase the flow of assimilates to ripening fruits and vegetables resulting in a better fill rate and thus in higher yields. Applied to the soil, **Advanced Natural Power Final Solution** is a real initiator of bacterial soil life. Soil bacteria are essential to maintain healthy soils.

In the Netherlands, **Advanced Natural Power Final Solution** is successfully used in professional intensive indoors and outdoors horticulture (vegetables, fruits, bulbs, flowers).

Ingredients

Extracts from several seaweed species amended with complexed carbohydrates.



Physical state

Finely filtered solutions with pH 4.5 - 5.5

Function

To increase reproductive growth and yields

To stimulate and maintain soil bacteria.

Application methods

Spraying or application through irrigation systems

Application interval

Bi-weekly during the reproductive growth phase for increasing reproductive growth bi-weekly during the entire growth phase for soil maintenance.

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.

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 Final Solution in a 1:2 CaCl_2 extract

Ec (mS/cm)	10 – 12
pH-KCl	4,5 – 5,5

	mmol/l	$\mu\text{mol/l}$	mg/l	$\mu\text{g/l}$
NH₄	4.9		88	
NO₃	0.4		25	
P	1.03		32	
K	34.2		1337	
Ca	3.2		128	
Mg	1.6		39	
SO₄	80.3		7714	
Fe		44		2457
Mn		13		714
Zn		11		719
B		37		400
Cu		2.9		184
Mo		0.1		10
Si	0.24		7	
HCO₃	45.3		5514	
Na	31.0		1000	
Cl	10.2		386	

April 2011

Advanced Hydroponics of Holland B.V.

Oosteinderweg 303-B
1432 AW AALSMEER
Telefoon 0297 363404- Fax 0297 363401
Email: info@advancedhydro.com
www.advancedhydro.com

Legislation:

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