

# ROOTHRIVING™

## Humic acid & Algae Liquid Fertilizer



群耕農業生技有限公司  
GROUP GAIN BIO-AGRI CO., LTD.  
www.groupgain.com.tw

### Technical Data Sheet

## DESCRIPTION

ROOTHRIVING™ is a biostimulant product designed especially for the nutrients which crops require for root system development. Mainly comprised of fulvic acid and seaweed extract, this product promotes the differentiation and development of lateral roots and assists in nutritional absorption within the root system. The addition of seaweed polysaccharides and multivitamins helps root systems resist adversity from soil and environmental factors, so that crops successfully grow.

## BENEFITS

- Fulvic acid: A type of humic acid which is highly water soluble and has a lower molecular weight. It is a highly active organic acid which strengthens plant utilization and absorption of nutrients and trace elements.
- Seaweed extract: Rich in alginic acid, seaweed polysaccharides, amino acids and trace elements, this assists in the development of root systems and growth of new shoots.

## APPLICATION

CROPS	APPLICATION OF TIME	IRRIGATION DILUTION RATE	FOLIAR DILUTION RATE	DOSAGE (L/HA)
ALL OF CROPS	USE ONCE EVERY 7-10 DAYS IN THE SEEDLING STAGE	600-800	800-1,000	1.0-2.0
	USE ONCE EVERY 5-7 DAYS IN THE VEGETATIVE STAGE	400-600	600-800	2.0-4.0

Avoid mixing with alkaline pesticides or fertilizers.

- Nitrogen, phosphorus, potassium and trace elements: Trace elements are vital nutrients when it comes to the synthesis of plant structures. They are indispensable elements of the plant development process.

## ACTIVE INGREDIANT

Nitrogen (N)	1.5 %
Phosphoric anhydride (P <sub>2</sub> O <sub>5</sub> )	2.0 %
Potassium oxide (K <sub>2</sub> O)	5.0 %
Iron(Fe)	0.4 %
Zinc (Zn)	0.2 %
Manganese (Mn)	0.2 %
Boron (B)	0.1 %

## WARNING

- Sedimentation in the product is normal. Please shake thoroughly before use.
- Store in a cool, dry place and avoid direct sunlight. The cap should be on tightly. Do not pour water into the bottle.
- During foliar spray applications, this product can be mixed with pesticides. However, care must be taken to avoid combining the product with inorganic copper agents, Bordeaux mixture, or alkaline pesticides.

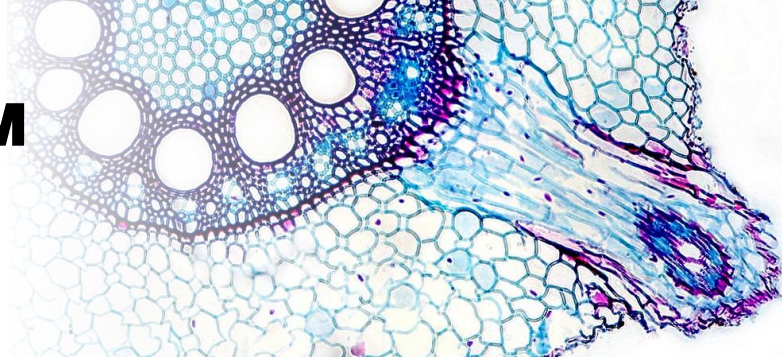
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### TYPICAL PROPERTIES

Appearance (25 °C).....	Liquid
Color.....	Dark brown
Odor.....	Slight smoky taste
pH value.....	5.5-6.5
Density(g/cm <sup>3</sup> ).....	1.16

### STORAGE & HANDLING

1. Storage and transportation:  
Keep in a cool and dry place. Avoid direct sunlight and high temperature.
2. Spills and Disposal:  
Use protective solvent resistant gloves to avoid skin contact. Small spills can be wiped up with vermiculite or other suitable absorbent material and removed to an approved disposal container. Large spills should be absorbed by dirt, sand, or other suitable absorbents for disposal. Do not hose spills down drains. Move leaking containers to well ventilated area. No Smoking. Eliminate any source of ignition. Avoid inhalation.

3. Extinguishing measure:

Use water or dry chemical powder or CO<sub>2</sub>.

4. Standard Packaging:

ROOTHRIVING™ is available in bulk and in 20L drums.

### SHELF LIFE

4 years from production date.

### HEALTH HAZARD

1. Swallowed:

When a person swallows a large quantity of product, give the victim a lot of water and try to get the victim to vomit.

2. Eyes contact:

Gently rinse the effected eyes with clean water.

3. Skin contact:

Rinse with clean water.

4. Inhaled:

When a person in hales a large amount of gas introduced be remove the victim from the contamination to fresh air. Keep the victim warm and quiet.

5. First aid facilities:

None

