

# RUTOM LIQUID FERTILIZER



JIANGXI RUTOM BIOTECHNOLOGY CO., LTD

TOP 10 ORGANIC FERTILIZER MANUFACTURER IN CHINA

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# AMMONIA POLYPHOSPHATE

## LIQUID SOLUTION

# APP 11-37-0



Nitrogen	11%	P2O5	37%
pH	5.9	Density	1.421

### Advantage

- Efficient and high-concentration nitrogen and phosphorus nutrients.
- Nitrogen from ammonia sources; phosphates are slow-release to reduce leaching.
- It can regulate the pH level by neutralizing and alleviating soil acidification.
- Increase the stability of soil aggregates by interacting with minerals and organic matter in the soil.
- Promote photosynthesis efficiency and protein synthesis to achieve better growth.

### Application Method

- Use a ratio 1:800~1200, dilute it with water or other fertilizer.
- Spray it on the leaves or apply it through soil irrigation during the early growth phrase.

# AMMONIUM THIOSULFATE

## LIQUID SOLUTION

# ATS



(NH4)2S2O3	61%	Sulfur (S)	26%
Nitrogen (N)	11%	pH	7.9
Density	1.329	Color	Clear Transparent

### Advantage

- Ammonium thiosulfate contains two essential plant nutrients, sulfur (S) and nitrogen (N).
- The sulfur element in ammonium thiosulfate is beneficial to the activities of soil microorganisms.
- Maintaining the structure and function of plant chloroplasts.
- he rational application of ammonium thiosulfate can enhance the resistance of crops to certain adverse conditions.
- Extremely prompt acting nutrients for plants to absorb.

### Application Method

- Apply 45 Kg per hectare per time, use ratio of 1:800 with water.
- Timing: At plants growth stage, through foliar spraying or irrigation.



# CALCIUM THIOSULFATE

## LIQUID SOLUTION

# CATS



TCaS2O3	25.5%	Calcium (Ca)	6.56%
Sulfur (S)	11.02%	pH	6.7
Density	1.254	Appearance	Clear Transparent

### Advantage

- Calcium is a major component of plant cell walls.
- Sulfur is one of the main components for synthesizing amino acids and proteins.
- The calcium ions in calcium thiosulfate can react with other substances in the soil, helping soil particles to aggregate better and form a favorable granular structure.
- In alkaline soils, the calcium ions in calcium thiosulfate can displace sodium ions on soil colloids
- For acidic soils, calcium elements can react with acid radical ions in the soil, playing a neutralizing role, reducing the acidity of the soil and stabilizing the soil ph.

### Application Method

- Apply 45 Kg per hectare per time, use ratio of 1:800 with water.
- Timing: At plants growth stage, through foliar spraying or irrigation.

# MAGNESSIUM THIOSULFATE

## LIQUID SOLUTION

# MGTS



Magnesium (Mg)	4%	Total Sulfur (S)	11%
Density	1.239 g/cm3	pH	8.3
Density	1.254	Appearance	Clear Transparent

### Advantage

- Supply a high concentration of instant liquid magnesium and sulfur.
- Magnesium promotes the photosynthesis process and restores a faster green color.
- Sulfur participates in physiological processes. It is a component of proteins and sulfur-containing amino acids such as Methionine and Cysteine.
- Sulfur can also enhance the natural aroma and flavor of the harvest.
- M.T.S is weakly alkaline and can be applied to acidic soil to regulate the pH level.
- M.T.S can improve the cell's water-holding capacity and regulate the cell's osmotic pressure to resist drought stress.

### Application Method

- Apply 45 Kg per hectare per time, use ratio of 1:800 with water.
- Timing: At plants growth stage, through foliar spraying or irrigation.



# SORBITOL CALCIUM MAGNESIUM SOLUTION (B + Zn)



Nitrogen (N)

7%

Calcium (Ca)

150 g/L

Magnesium (Mg)

20 g/L

Sorbitol

95-100 g/L

Boron (B)

10 g/L

Zinc (Zn)

5 g/L

## Advantage

- Contains high concentration of sorbitol, Magnesium and Calcium.
- Prevent fruit cracking, watering meat, hollow core due to lack of calcium.
- Brings in a better fruit shape, aroma, taste and color.
- Enhance the cell wall strength, less damage in transportation.
- Extremely prompt acting nutrients for plants to absorb.

## Application Method

- Apply 45 Kg per hectare per time, use ratio of 1:800 with water.
- Timing: Before the fruits starts to boom, apply 5-8 times.

# AMINO ACID

## LIQUID SOLUTION



Free amino acid	200 g/L
Organic Matter	100 g/L
Color	Black

Nitrogen (N)	80 g/L
pH	4.5
Density	1.15

### Advantage

- Contains multiple types of free amino acids.
- High nitrogen concentration help boost a fast greenery.
- Excellent energy to stimulate plants' root and leaf development.
- High organic content, supply nitrogen and carbon for soil beneficial microorganism.
- Suitable for all plants.

### Application Method

- Apply ratio of 1:800 ~1200 with water.
- Timing: During the growth phrase.

# LIQUID FISH AMINO ACID



Nitrogen	3.02%	P2O5	0.5%
K2O	5.18%	Organic Matter	25%
Polypeptide	51.2 g/L	Chitosan	8.0 g/L
Oligopeptide	62.6 g/L	Density	1.325

Also contains: Ca, Mg, Fe, Cu, Zn, Mn, Se, Bo, Protein, Vitamin, Cytokine, 18 type free amino acid.

## Advantage

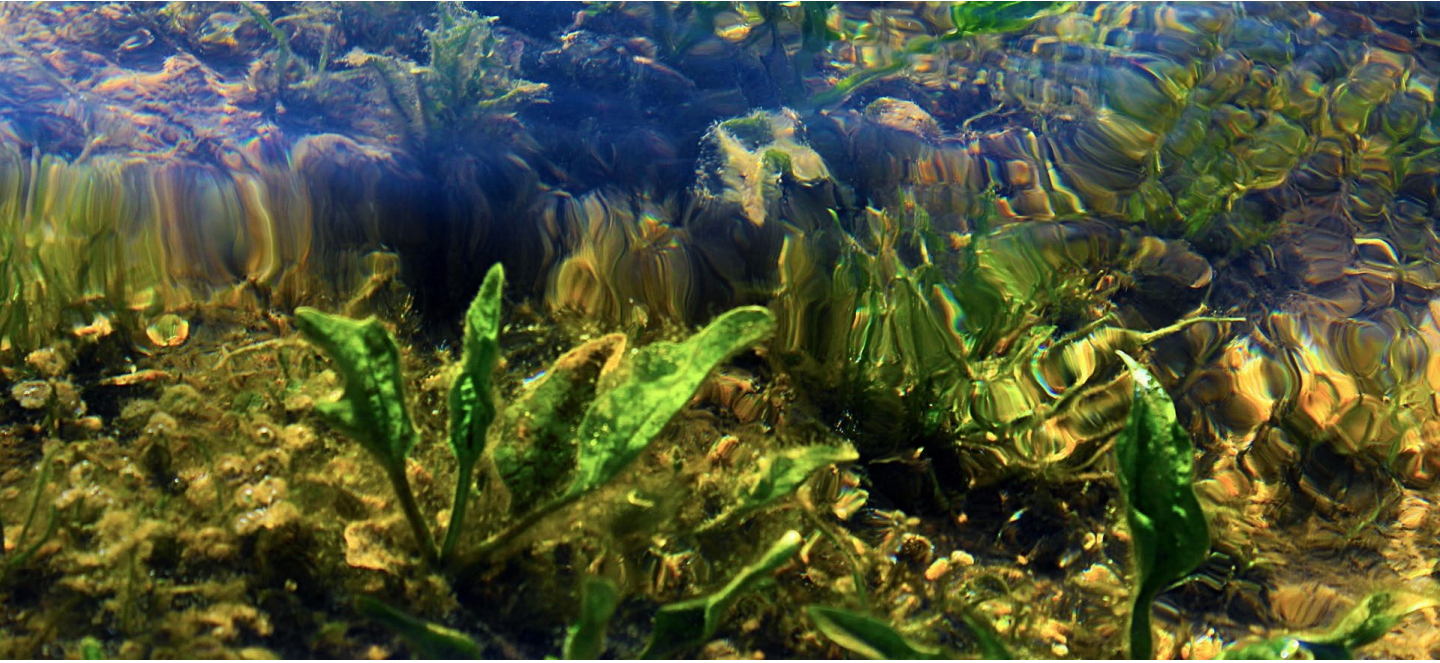
- Comprises 18 varieties of amino acids.
- High concentration of polypeptide and oligopeptide, an outstanding growth stimulant.
- Abounds in protein, chitosan, vitamins, food sources for beneficial soil microorganisms.
- Contains substantial amounts of trace elements including Ca, Mg, Fe, Zn, Mn, Se, and B.
- Enables visible growth and root development within a few days.

## Application Method

- Apply a ratio of 1:800 ~1200 with water.
- Timing: During the growth phrase.



# SEAWEED EXTRACT



Alginic acid

40%

pH

6.7

Organic Matter

3%

Density

1.09

## Advantage

- Contains high concentration of alginic acid and organic matter.
- Excellent growth stimulant.
- Contains multiple types of growth stimulant such as auxin, cytokinin and gibberellin.
- Foot source, nitrogen source and carbon source of soil beneficial microorganisms.
- Improves the nutrients efficiency and help build a better soil structure.

## Application Method

- Apply a ratio of 1:800 ~1200 with water.
- Timing: During the growth phrase by soil irrigation.

# AMINO ACID BASED LIQUID NPK SERIES



## FOR FORLIAR SPRAY PURPOSE

Nitrogen (N)	P2O	K2O	Zn +B	Proline	Calycine	Alginate
12	3	5	20g/L	4.4	5.0	0.4
8	6	6	20g/L	4.7	5.0	0.4
2	9	9	20g/L	4.7	5.0	0.4
2	6	12	20g/L	4.7	5.0	0.4

## FOR SOIL IRRIGATION PURPOSE

Nitrogen (N)	P2O	K2O	CaO	MgO	B	Proline	Humic Acid
12	4	4		1		4.8	30 g/L
8	6	6		1		4.7	30 g/L
2	9	9		1		5.0	30 g/L
			10	1	1	5.1	30 g/L

**OEM Formulas Are Acceptable.**



# Your Reliable Fertilizer Factory & Business Partner



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