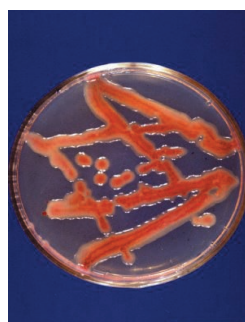
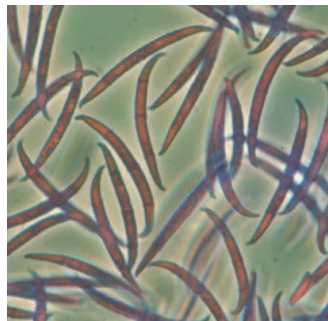
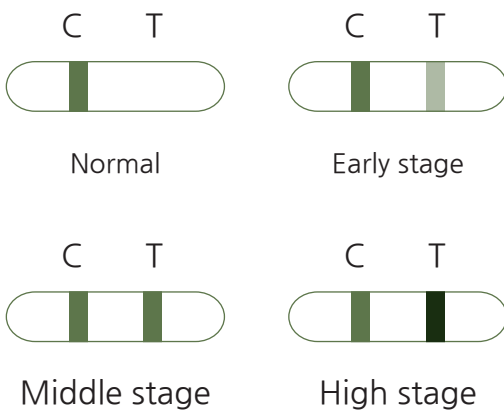


## General information

- 01 One-step rapid test of Fusarium Oxysporum and Ralstonia Solanacearum.
- 02 Expensive equipment is not required.
- 03 Easy storage and maintenance,
- 04 High-purity and high-quality materials of the test kit increase its sensitivity and specificity.

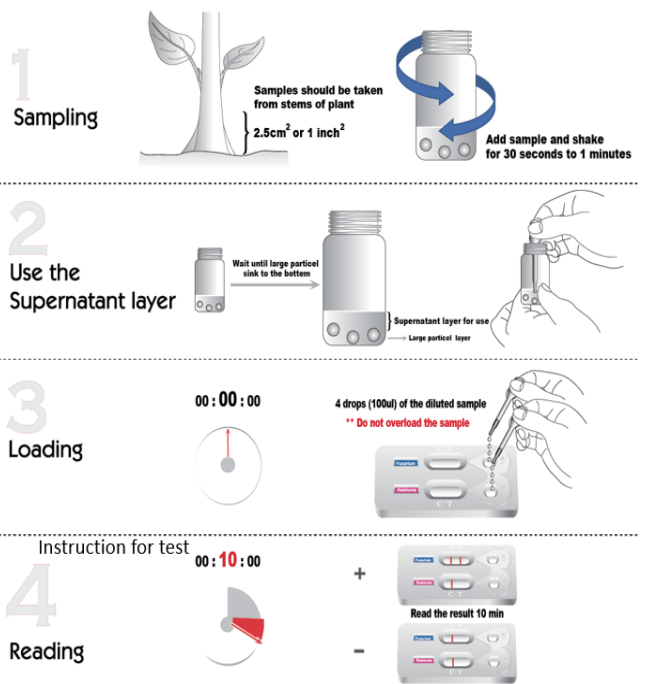
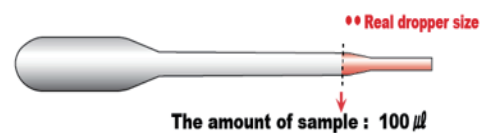
## Interpretation of the results



## Usage and dosage



## Instruction for test



# ABC BT

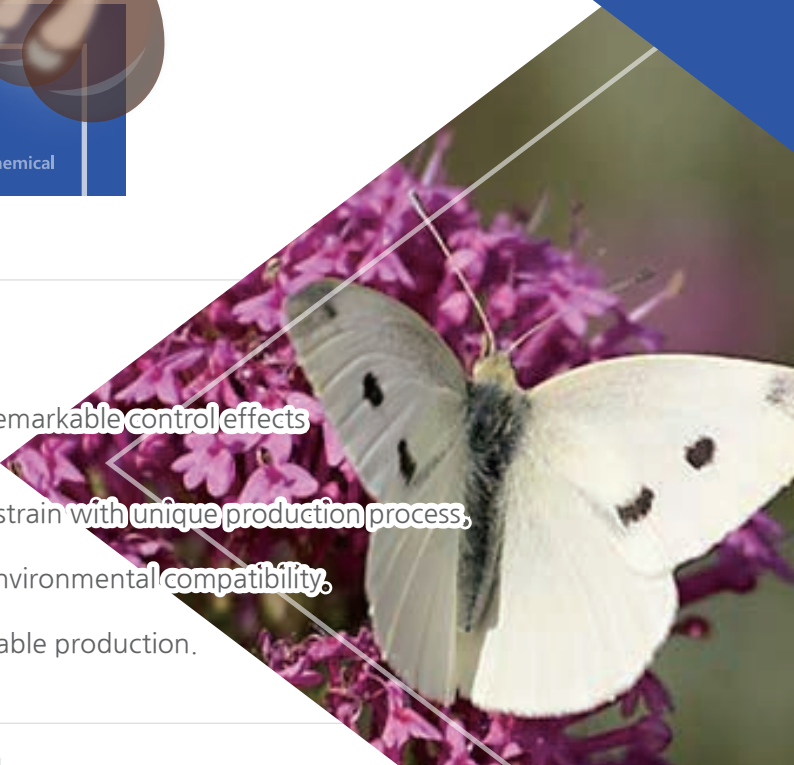
Agro Bio Chemical

Liquid type



## General information

- 01 A most widely used microbial insecticide which remarkable control effects on pests from crops, forests, fruits & vegetables.
- 02 ABC BT is manufactured from high toxic natural strain with unique production process.
- 03 ABC BT is low toxicity to animals and the good environmental compatibility.
- 04 ABC BT is widely used in the non-pollution vegetable production.
- 05 ABC BT can do fast effect to insect.



## Target

Lepidoptera pests  
(diamond-back moth, cabbage butterfly, Cotton bollworm, Oriental tobacco budworm, Rice skipper butterfly, Corn borer, Rice stem borer, American white moth, Caterpillars etc)



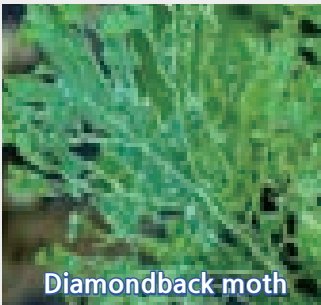
Tea tortrix



Smaller tea tortrix



Rice stem borer



Diamondback moth



Oriental tea toririx



Cabbage worm

## Applications

| Crop      | Dilution        | Method                                  |
|-----------|-----------------|-----------------------------------------|
| All crops | 500~1,000 times | Foliar application (15~25days interval) |

## Caution

- Should be stored cool.
- Keep out of reach of children and pets.



# ABC Mite

Liquid type

Agro Bio Chemical

## General information

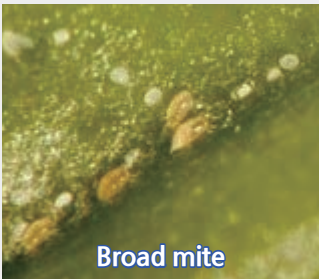
- 01 It affects all stage of mites. it can kill mites in 10 minutes after spray.
- 02 Recommended for organic farming and well to combine with chemical fungicides and pesticides.
- 03 Environmentally-friendly agricultural products suited to safe agricultural product.



## Target



Two-spotted spider mite



Broad mite



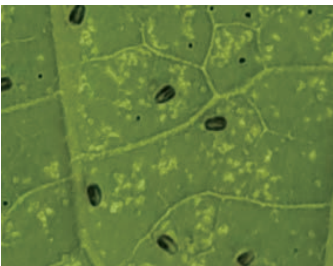
Tea red spider mite



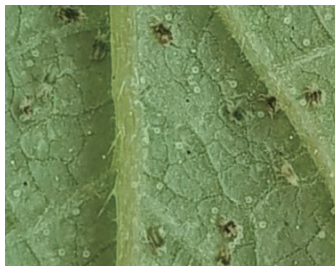
Citrus red mite

and other various mite.

## Comparison



Control



ABC Mite

## Applications

| Crop      | Dilution          | Method                                  |
|-----------|-------------------|-----------------------------------------|
| All crops | 1,000~2,000 times | Foliar application (15~25days interval) |

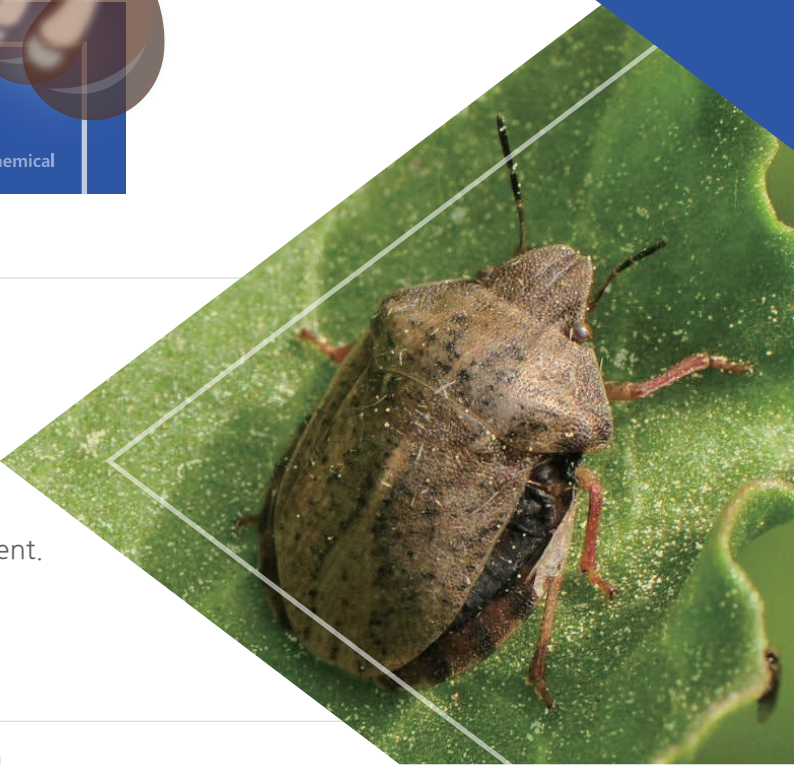
## Caution

- Should be stored cool.
- Keep out of reach of children and pets.
- For best efficacy spray in early morning or late afternoon. if needed, spray 2~3 times with 5~7days interval in case of high density of pests.
- Do not go for spraying while eating anything. shake well before using.
- Use spray solutions within several hours of preparation for maximum effectiveness but do not store diluted solution for later use.
- Do not apply to wilted and newly transplanted material prior to root establishment.

# ABC Bug

Agro Bio Chemical

Liquid type



## General information

- 01 Controls all kind of bugs.
- 02 It contains garlic extract oil.
- 03 It can kill all kinds of bug after 10minutes treatment.

## Target



Lygocoris lucorum



Scotinophara lurida



Riptortus clavatus  
THUNBERG



Chrysomelidae

and All kind of bug.

## Applications

| Crop               | Dilution        | Method                                       |
|--------------------|-----------------|----------------------------------------------|
| Vegetable & fruits | 500~1,000 times | Foliar treatment to bug (10~15days interval) |

## Caution

- Should be stored cool.
- Keep out of reach of children and pets.
- For best efficacy spray in early morning or late afternoon. if needed, spray 2~3 times with 5~7days interval in case of high density of pests.
- Do not go for spraying while eating anything. shake well before using.
- Use spray solutions within several hours of preparation for maximum effectiveness but do not store diluted solution for later use.
- Do not apply to wilted and newly transplanted material prior to root establishment.

## Comparison



Control



ABC Bug



# ABC Moth

Agro Bio Chemical

Liquid type

## General information

- 01** The ingredients of ABC Moth are botanical extract, controls moths and america leaf miner.
- 02** Active against young stage.
- 03** Good compatibility with other chemical and fertilizer.
- 04** Available any time regardless of growing period.

## Target

Common cabbage worm,  
leaf miner, tea tortrix,  
rice reaf roller, beet armyworm.



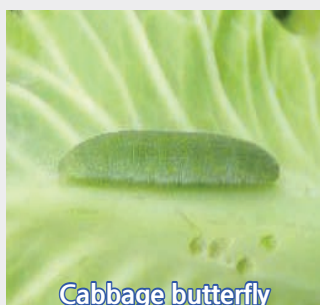
Spodoptera litura



Smaller tea tortrix

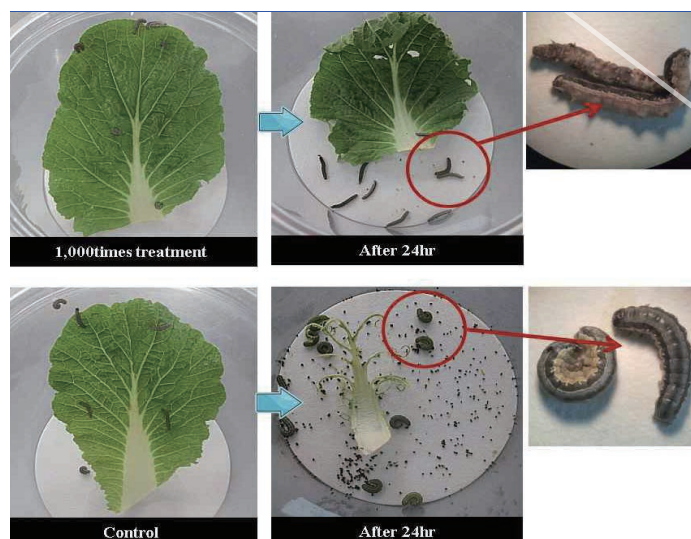


Tortricinae



Cabbage butterfly

## Comparison



## Caution

- Do not drink this product.
- Keep out of reach of children and pets.
- Avoid contact with eyes and skin.
- Wash out after use.
- It must be diluted by 2,000times at 35°C or higher.
- Spraying directly onto the pest and a longer duration do leaf wetting increases effectiveness.
- Good compatibility with other chemical and fertilizer.
- Apply in early to mid-morning or late afternoon. spray in the dusk sunshine or cloudy and avoid high temperature.

## Applications

| Crop                     | Dilution    | Method                                          |
|--------------------------|-------------|-------------------------------------------------|
| Vegetable, fruits & rice | 1,000 times | Foliar treatment to larvae (15~30days interval) |

# ABC Thrip

Agro Bio Chemical

Liquid type

## General information

- 01** Based on botanical extract, which is effective to controls thrips and aphids etc,
- 02** Control of the effect on larva and hatching an egg through contact with product,
- 03** Control pests lurking by the neurotoxin.
- 04** Good compatibility with other chemical and fertilizer.

## Target

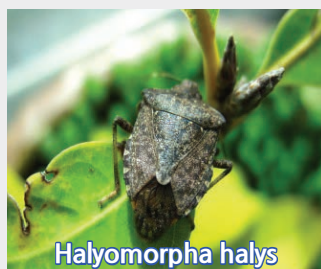
Thrips, aphids, white fly, comstock mealybug, been bug



Western flower thrips



Western flower thrips



Halyomorpha halys



Comstock mealybug



Cabbage aphids



Green peach aphids



White fly



White fly

## Applications

| Crop               | Dilution    | Method                                           |
|--------------------|-------------|--------------------------------------------------|
| Vegetable & fruits | 1,000 times | Foliar treatment to Insects (15~30days interval) |

## Caution

- Do not drink this product.
- Keep out of reach of children and pets.
- Avoid contact with eyes and skin.
- Wash out after use.
- Spraying directly onto the pest and a longer duration do leaf wetting increases effectiveness.
- If it mixed with spreading agents more effective.
- Apply in early to mid-morning or late afternoon. spray in the dusk of sunshine or cloudy and avoid high temperature.



# ABC Nema

Liquid type

Agro Bio Chemical

## General information

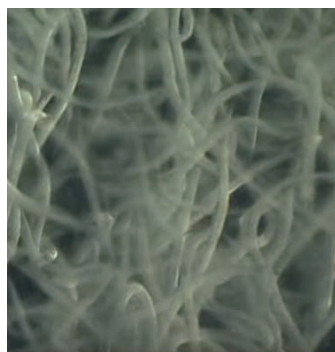
- 01** Controls nematode in greenhouse.
- 02** Contains natural botanical plant extract medical herb extracts and synergistic materials,
- 03** Be treated with water irrigation system.
- 04** Synergistic materials promote main ingredient's activity and biological stimulation of soil texture

## Applications

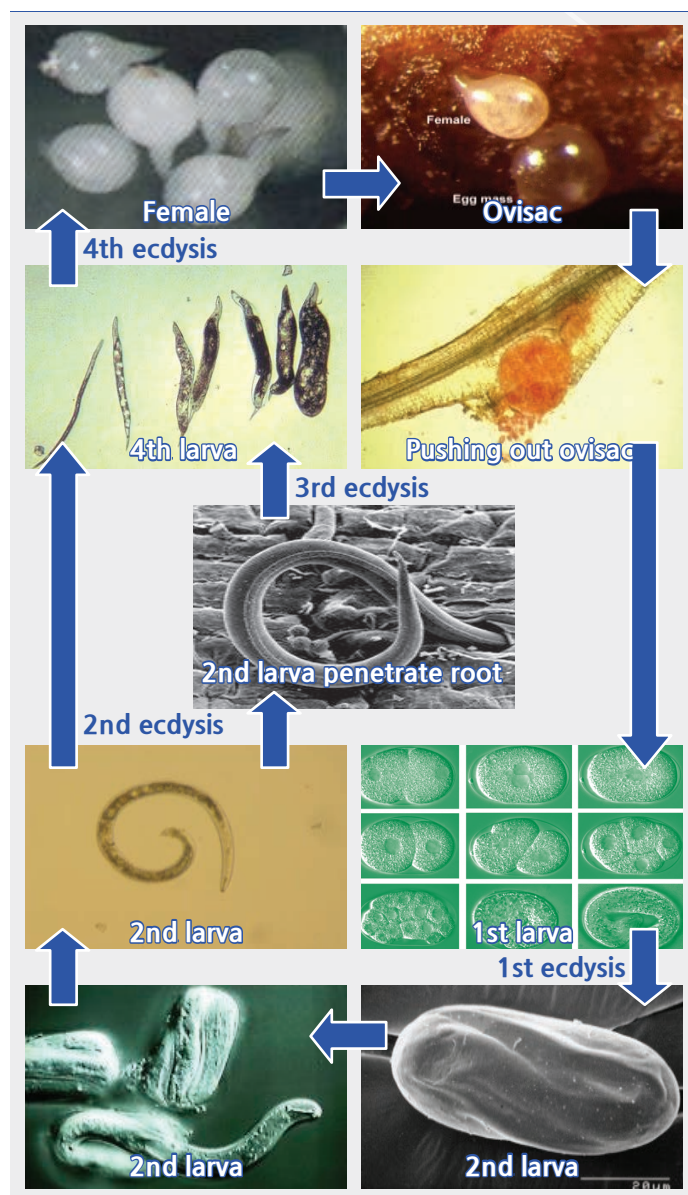
| Crop               | Dilution                                                         | Method                                                         |
|--------------------|------------------------------------------------------------------|----------------------------------------------------------------|
| Vegetable & fruits | 1,000 times (for curative)<br>or<br>2,000 times (for prevention) | Apply 2~3 times (20~25 days interval)<br>1.5L/0.1ha irrigation |

## Caution

- Do not drink this product.
- Keep out of reach of children and pets.
- Avoid contact with eyes and skin.
- Wash out after use.
- If it mixed with spreading agents is more effective.
- Apply in early to mid-morning or late afternoon.
- 1st application is week after transplant.



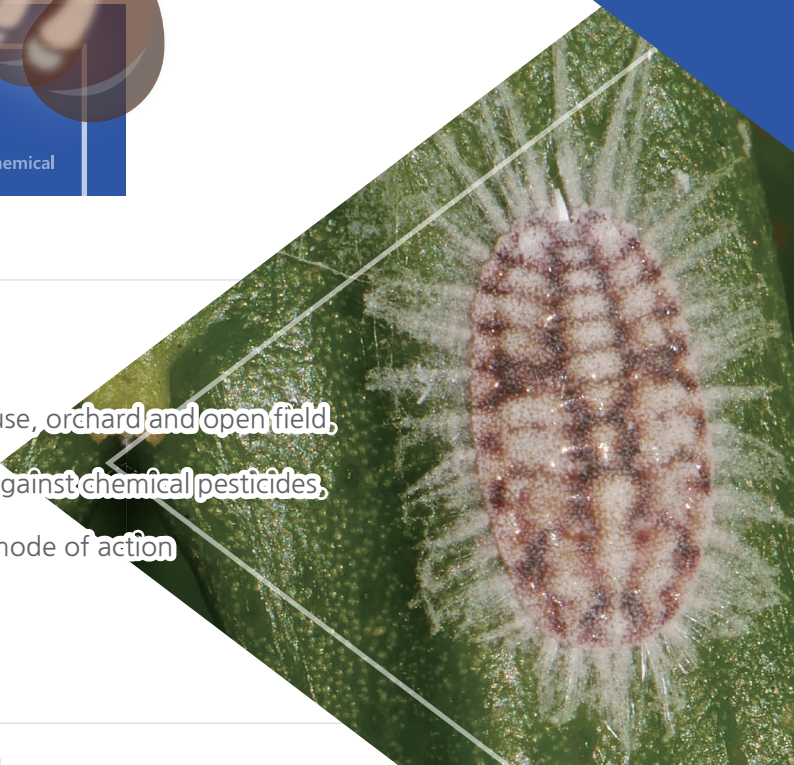
## Root knot nema life cycle



# ABC Scale

Agro Bio Chemical

Liquid type



## General information

- 01 Controls mealybug, scale and aphids in greenhouse, orchard and open field,
- 02 Effective to control pests which have resistance against chemical pesticides,
- 03 No tolerance expression by multiple insecticidal mode of action of derris extracts and botanical plant oils.

## Target

Mulberry mealybug, cottony cushion scale, brown soft scale



Melon aphid



Mulberry mealybug



Cottony cushion scale



Cottony cushion scale

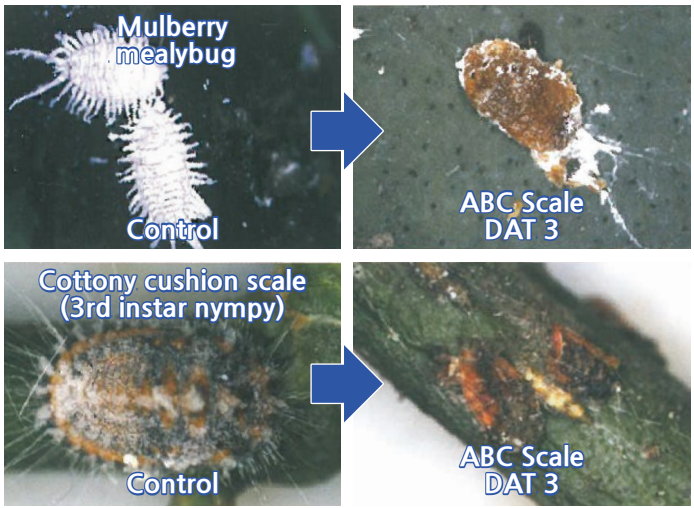
## Mode of action

| Botanical plant extract                                                               | Extract oils                                                                    | Synergistic materials                                       |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------|
| Nerve stimulus and paralysis<br>Contact poison and Knock down effect<br>Stomach upset | Respiratory inhibition<br>Repellent effect<br>Disruption of cellular metabolism | Promoting ingredient activity<br>Cuticle penetration effect |

## Applications

| Crop         | Dilution          | Method                               |
|--------------|-------------------|--------------------------------------|
| Pear, citrus | 1,000~2,000 times | Foliar treatment (5~7days interval)  |
| Vegetable    | 1,000 times       | Foliar treatment (7~10days interval) |

## Comparison



## Caution

- Keep out of reach of children and pets.
- Do not drink this product.
- Avoid contact with eyes and skin.
- Wash out after use.



# ABC Refined spray oil

Liquid type



## General information

- 01** Specially highly refined paraffin oil.
- 02** Distillates and severely hydrotreated light paraffin oil,
- 03** Mixed with water then sprayed on your crop to control a variety of insects,
- 04** Controls mites, scale insects, galls, mealy bugs, aphids and other insects,
- 05** Refined spray oil kills insects by blocking their pores and smothering them.
- 06** Minimize plant phytotoxicity by hydrotreated technology.
- 07** No insect resistance because of physical properties

## Product analysis

Wt/Wt, %

| Highly refined paraffinic oil | Emulsifying agent |
|-------------------------------|-------------------|
| 95~98                         | 2~5               |



## Applications

| Crop        | Time                           | Dilution         | Target        |
|-------------|--------------------------------|------------------|---------------|
| Apple       | One to three mites on the leaf | 100ml /20L Water | Mites         |
| Citrus      | Early development season       | 66ml /20L Water  | Mites & scale |
| Pomegranate | Early development season       | 200ml /20L Water | Aphids        |
| Cherry      | One to three mites on the leaf | 100ml /20L Water | Mites         |
| Peach       | Early development season       | 100ml /20L Water | Scale         |

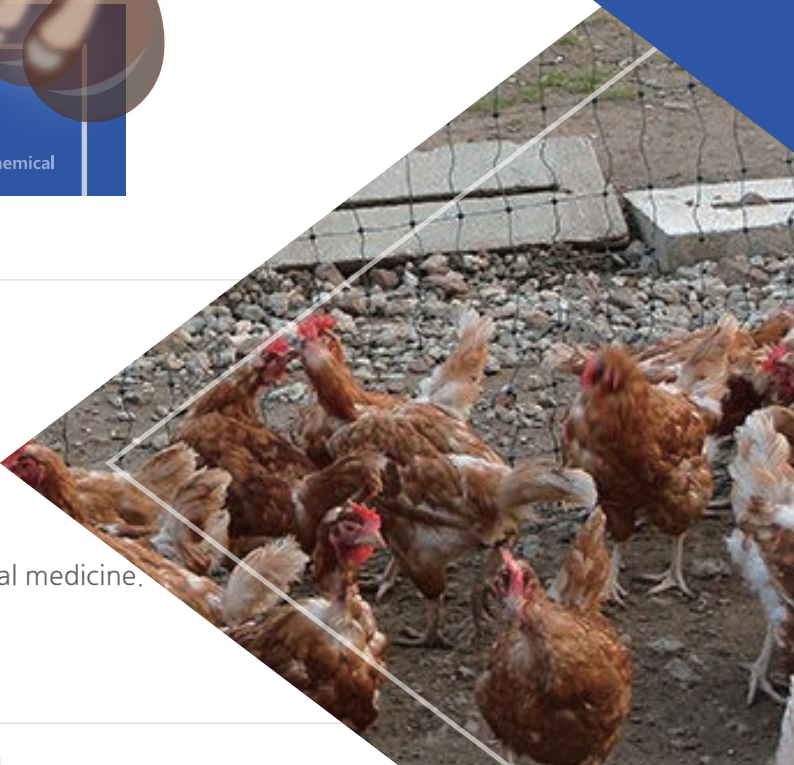
## Caution

- Keep out of reach of children and pets.
- Do not drink this product.
- Avoid contact with eyes and skin.
- Wash out after use.

# ABC Chicken mite

Agro Bio Chemical

Liquid type



## General information

- 01 Based on botanical extract, which is effective to control red mite and all kinds of chicken louse.
- 02 Control pest which is lurking in the chicken.
- 03 Good compatibility with other chemical and natral medicine.

## Target

All kinds of redmite and chicken louse.



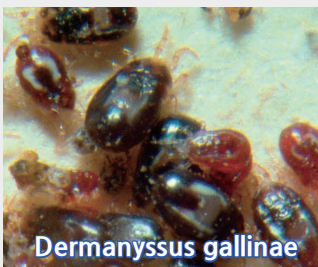
Dermanyssus gallinae



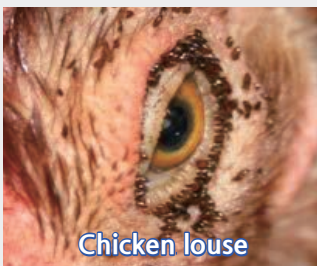
Dermanyssus gallinae



Dermanyssus gallinae



Dermanyssus gallinae



Chicken louse



Chicken louse



Chicken louse



Chicken louse

## Applications

| Crop                                    | Dilution  | Method                                                     |
|-----------------------------------------|-----------|------------------------------------------------------------|
| All kinds of redmite and chicken louse. | 500 times | Spraying on chicken cage or equipment (15~20days interval) |

## Caution

- Keep out of reach of children and pets.
- Do not drink this product.
- Avoid contact with eyes and skin.
- Wash out after use.
- Before spray ABC Chicken mite, clean dirt in chicken cage.
- Using at early morning or afternoon is more effective.
- when chicken louse is high density, dilute ABC Chicken mite 250times to one and spray it.



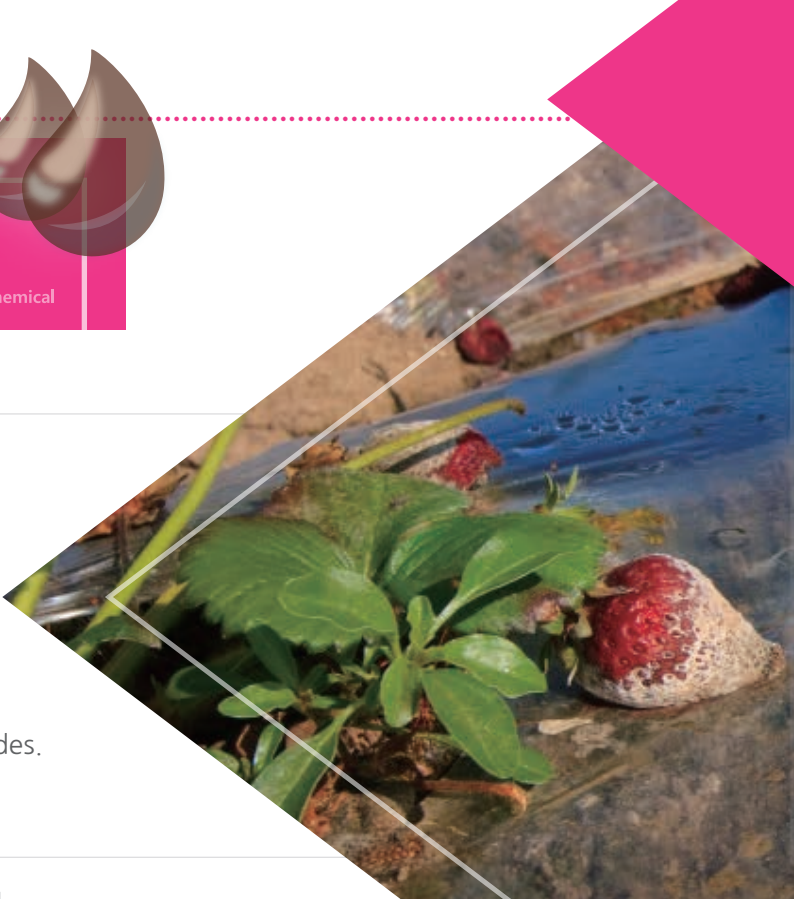
# ABC Fungus

Agro Bio Chemical

Liquid type

## General information

- 01** Control various fungus disease by boosts plant resistance against fungal disease.
- 02** Contains botanical plant extracts.
- 03** Provides better efficacy when spraying in conjunction with other protectant and fungicides.



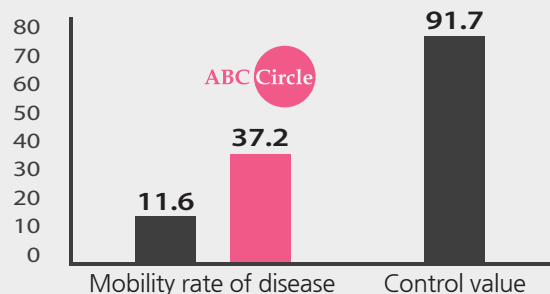
## Target



## Comparison

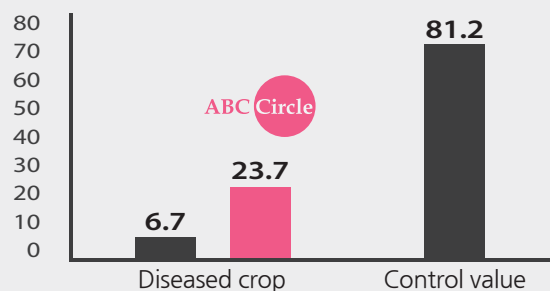
### Cucumber powdery mildew(2015)

\* Two times application with 7 days interval



### Chilli anthracnose(2015)

\* Two times application with 7 days interval



## Applications

| Crop      | Dilution                                                        | Method                                     |
|-----------|-----------------------------------------------------------------|--------------------------------------------|
| All crops | ABC Fungus<br>800~1,000 times                                   | Foliar spray before<br>disease infection   |
|           | ABC Fungus + other<br>1,000~1,500 times                         |                                            |
|           | Drenching 2~3times<br>by 10~15days interval<br>after transplant | Soil drenching<br>1~2L/1,000m <sup>2</sup> |

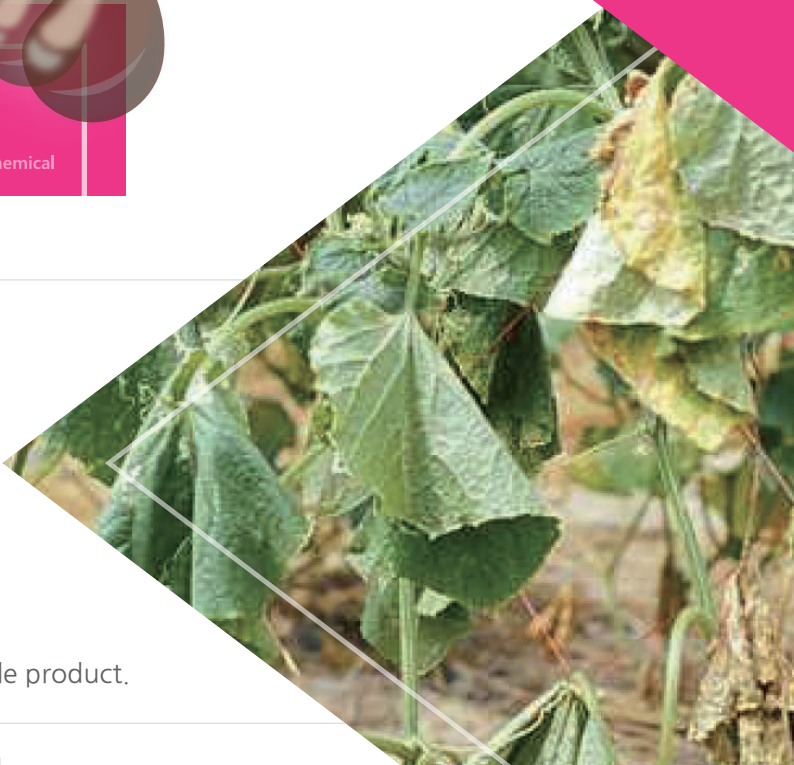
## Caution

- Keep out of reach of children and pets.
- Do not drink this product.
- Avoid contact with eyes and skin.
- Wash out after use.
- Do not mix with alkaline pesticide and nutrient.
- Mixing with wetting agent can increase control effect.

# ABC Fusarium

Agro Bio Chemical

Liquid type



## General information

- 01 Control various fungus disease especially, Fusarium and phytophthora.
- 02 Contains botanical plant extract product.
- 03 Provides better efficacy when spraying in alternatively with other protectant.
- 04 ABC Fusarium is liquid type and fully water soluble product.

## Applications

| Crop      | Dilution                       | Method                                                                                                                          |
|-----------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| All crops | 800~100 times<br>(20~25ml/20L) | Foliar spraying for 3~5times by 7~10-days interval when troubles in crop growing is expected or trace of trouble is discovered. |

## Comparison

Tomato Fusarium wilt efficacy test



## Antifungal test

In vivo test



## Caution

- Keep out of reach of children and pets.
- Do not drink this product.
- Wash out after use.



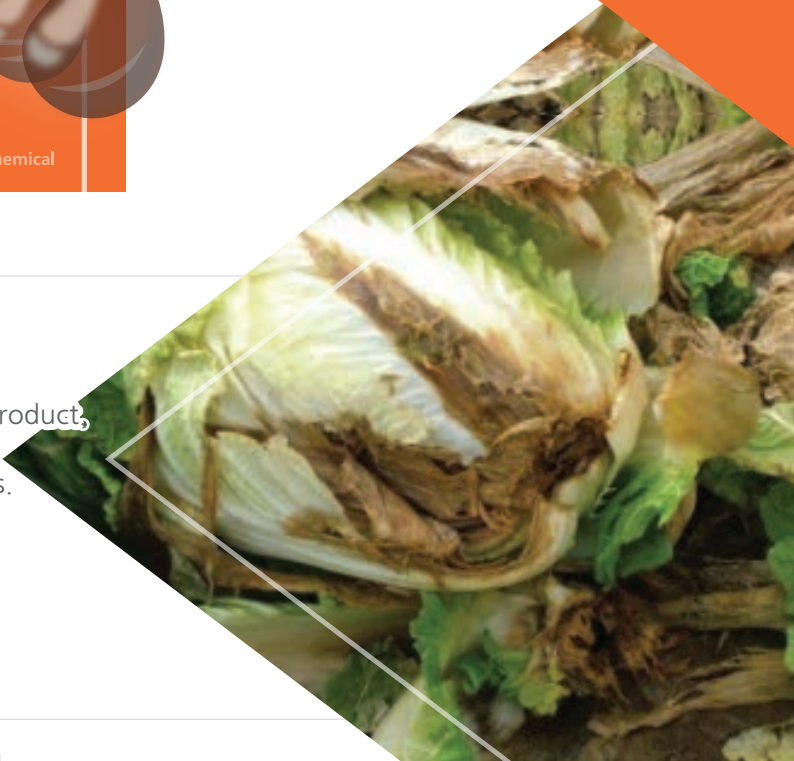
# ABC Bacter

Agro Bio Chemical

Liquid type

## General information

- 01 Control bacterial disease by botanical medicine product,
- 02 Prevent and cured by physical&chemical methods.
- 03 None damage to crop and soil.



## Target



Tomato, verticillium wilt



Rice, bacterial leaf blight



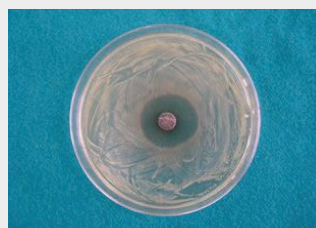
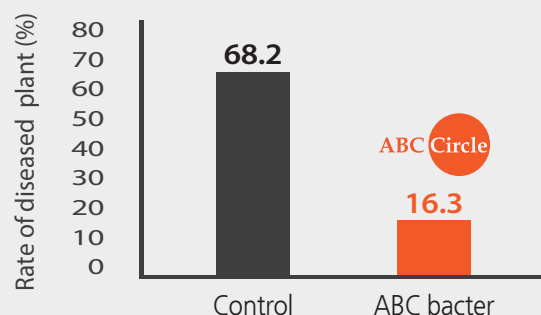
Cabbage, bacterial soft rot



Chilli, bacterial spot

## Comparison

Tomato verticillium wilt (*ralstonia solanacearum*)  
control value test \* 3 application with 10 days interval after transplant



## Applications

| Crop      | Dilution                       | Method                                                                           |
|-----------|--------------------------------|----------------------------------------------------------------------------------|
| All crops | ABC Bacter 500 times           | Treatment before disease or ealry disease stage enough treatment to disease part |
|           | ABC Bacter + other 1,000 times |                                                                                  |
|           | Soil drenching 1~2L/1,000m2    | Drenching 2~3times by 10~15days interval after transplant                        |

## Caution

- Keep out of reach of children and pets.
- Do not drink this product.
- Avoid contact with eyes and skin.
- Wash out after use.
- Do not mix with alkaline pesticide and nutrient.
- Mixing with wetting agent can increase control effect.

# ABC Viruses

Agro Bio Chemical

Liquid type

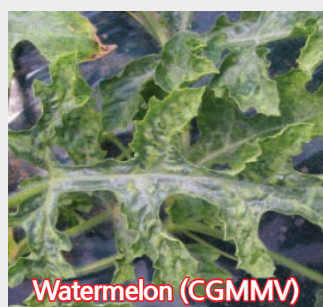
## General information

- 01** Excellent efficacy on control various viruses.
- 02** Protect viruses spread by strengthen crop surface.
- 03** Soil drenching and foliar spraying and natural plant extract product.

## Applications

| Time                                       | Method                                       | Dilution                                                                                                  |
|--------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Before trans-planting                      | Soil drenching, 1~2L/1,000m <sup>2</sup>     | 20ml/20L water (1,000times)                                                                               |
| Before infection/ after infection          | Foliar spraying for 3~5 times interval 7days | 40ml/20L water (500times)                                                                                 |
| Viruses                                    | A source of infection : Aphids               | Application methods                                                                                       |
| Pepper mild mottle virus (PMMoV)           | Soil                                         | Soil incorporation before transplanting or dilute 1,000times with soil drenching 1~2L/1,000m <sup>2</sup> |
| Tobacco mosaic virus (TMV)                 | Soil                                         |                                                                                                           |
| Cucumber green mottle mosaic virus (CGMMV) | Soil                                         |                                                                                                           |
| Watermelon mosaic virus (WMV)              | Insects(aphids)                              | Foliar spraying for 3~5 times by 7 days (dilution: 500times)                                              |
| Tomato spotted wilt virus (TSWV)           | Insects(thrips)                              |                                                                                                           |
| Cucumber mosaic virus (CMV)                | Insects(aphids)                              |                                                                                                           |

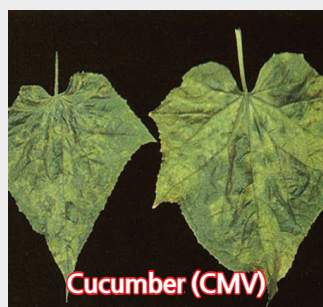
## Target



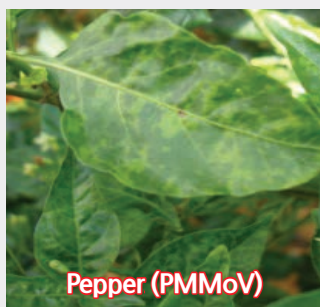
Watermelon (CGMMV)



Tomato Spotted Wilt Virus (TSWV)



Cucumber (CMV)



Pepper (PMMoV)

## Comparison



## Caution

- Keep out of reach of children and pets.
- Do not drink this product.
- Avoid contact with eyes and skin.
- Wash out after use.
- Do not mix with alkaline, calcium and oil.



# ABC Triple UP

Agro Bio Chemical

Liquid type

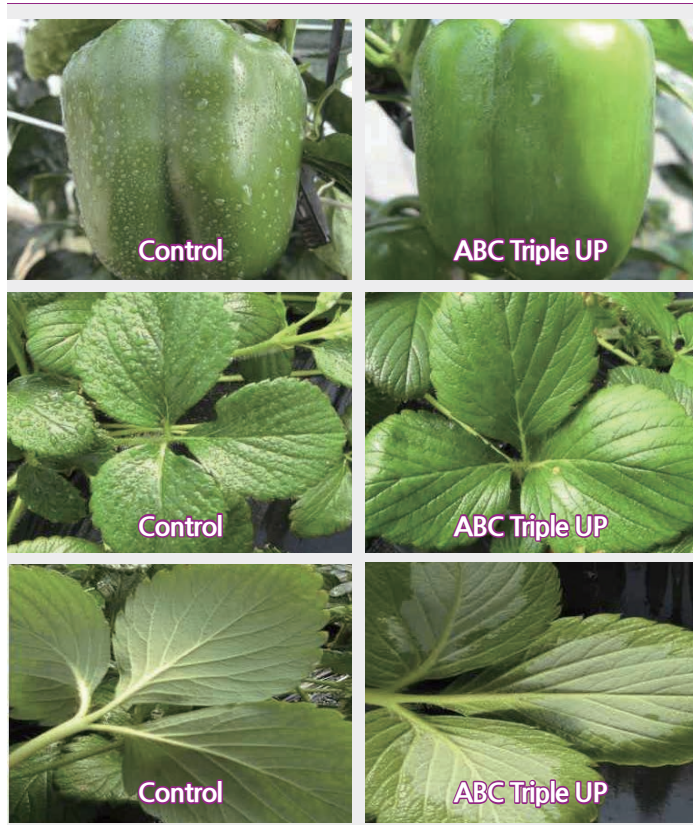
## General information

- 01** Greatly reduce surface tension for superior cover, penetration and adhesiveness.
- 02** Increase efficacy of insecticide, fungicide, growth promoter,
- 03** Increase foliar fertilizer efficacy and irrigation fertilizer efficacy.
- 04** No bubble in the mixing tank.

## Applications

| Crop      | Dilution          | Method                              |
|-----------|-------------------|-------------------------------------|
| All crops | 2,000~4,000 times | Mix with other product and spray it |

## Comparison I



## Comparison II



## Caution

- Should be stored cool area.
- Keep out of reach of children and pets.
- Do not drink this product.
- ABC Synergy UP is compatible with most, but not all, growth regulators and micro-nutrients.

# ABC CRF

Granule type, size 2~5mm 90%min

Agro Bio Chemical

## General information

- 01 Release fertilizer ingredient for 180days at 30℃.
- 02 ABC CRF release plant nutrients slowly and continuously.
- 03 Saving both time and labor, because once fertilizing is enough, the actual release rate is depends upon and is dictated solely by the soil.
- 04 This is accomplished by encapsulating fertilizer granules in a polymer coating.

## Product analysis

Wt/Wt, %

| N  | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O | MgO |
|----|-------------------------------|------------------|-----|
| 15 | 15                            | 6                | 3   |
| 16 | 9                             | 13               | 1   |
| 20 | 9                             | 12               | 3   |
| 18 | 46                            | 0                | 0   |

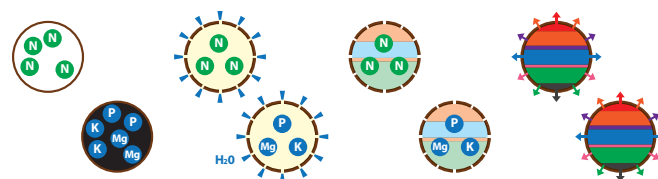
## Release Longevity

| 15℃         | 21℃      | 30℃        |
|-------------|----------|------------|
| 9~10 months | 8 months | 5~6 months |

## Applications

| Crop                          | Time                     | Usage         | Method                   |
|-------------------------------|--------------------------|---------------|--------------------------|
| Durian                        | 1~2 application per year | 1.5~2kg /tree | Fertigation or spreading |
| Tomato, Chilli, Garlic, Onion | 1 application per year   | 250~350kg /ha | Fertigation or spreading |
| Oil palm                      | 1 application per year   | 1.5kg /tree   | Fertigation or spreading |

## CRF release mechanism



### STEP1

Structure of CRF.

### STEP2

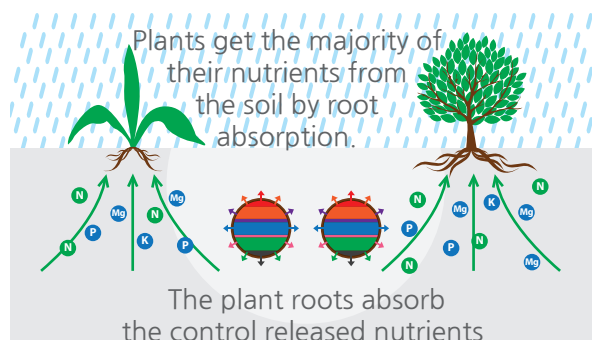
Soil water penetrates into the granule through the CRF coating pores.

### STEP3

ABC CRF nutrients are gradually dissolved into easily absorbed form.

### STEP4

ABC CRF nutrients are released into the soil slowly and continuously.



## Caution

- Should be stored cool and dry.
- Keep out of reach of children and pets.



# ABC SRF

Agro Bio Chemical

Nugget type



## General information

- 01 Slow release fertilizer ingredient for 180~210 days.
- 02 This product is adaptable to heavy rain area, sandy soil, peat soil and moisture area.
- 03 This product is melted by only moisture. not affected by temperature.
- 04 N source is nitrate, urea, ammonia base.

## Product analysis

Wt/Wt, %

| Type | N  | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O | MgO | B <sub>2</sub> O <sub>3</sub> | TE  |
|------|----|-------------------------------|------------------|-----|-------------------------------|-----|
| SRF1 | 15 | 15                            | 6                | 3   | 0.5                           | 0.5 |
| SRF2 | 12 | 12                            | 17               | 3   | 0.5                           | 0.5 |
| SRF3 | 12 | 6                             | 28               | 3   | 0.5                           | 0.5 |

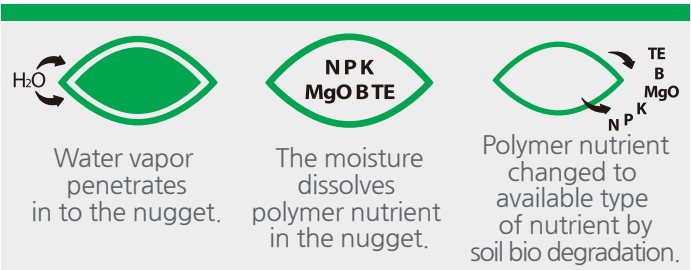
\*\* Tailor made product by request

## Applications

\*YAP: Year After Planting

| Crop  | Time                          | Usage         |
|-------|-------------------------------|---------------|
| Fruit | 1 application / 1 crop season | 0.5~1kg /tree |
| Palm  | 2 application per year        | 0.5~1kg /tree |

## SRF Release mechanism



## Apply method

### ABC SRF 1 (15-15-6 + 3MgO + 0.5B<sub>2</sub>O<sub>3</sub> + TE)



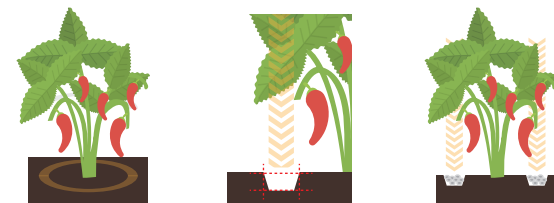
1. Make a hole.
2. Apply ABC SRF1.
3. Fill the hole.

### ABC SRF 2 (12-12-7 + 3MgO + 0.5B<sub>2</sub>O<sub>3</sub> + TE)



1. Make a hole.
2. Insert the crops.
3. Apply ABC SRF2.
4. Fill the hole.

### ABC SRF 3 (12-6-28 + 3MgO + 0.5B<sub>2</sub>O<sub>3</sub> + TE)

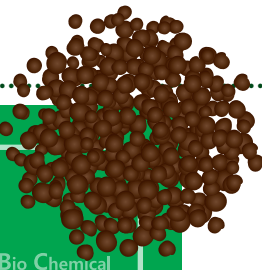


1. Burying ABC SRF3 within the above illustrated area.
2. Make a hole.
3. Apply the recommended amount.

## Caution

- Should be stored cool and dry.
- Keep out of reach of children and pets.

# ABC Compound


 Agro Bio Chemical

Granule type

16-16-16+MgO 1% B<sub>2</sub>O<sub>3</sub> 0.1%

## General information

- 01** This product is an environment friendly fertilizer since subsidiary ingredient is small and pH is nearly natural and give no harm to soil when use continuously.
- 02** This product is coated with diatomaceous earth, they are processed to keep dry condition so they prevent from moisture.
- 03** This product contained concentrated ingredient as a high degree fertilizer, This is available to spread in small volume and easy spreading.

## Product analysis

Wt/Wt, %

| N  | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O | MgO | B <sub>2</sub> O <sub>3</sub> |
|----|-------------------------------|------------------|-----|-------------------------------|
| 16 | 16                            | 16               | 1   | 0.1                           |

## Caution

- Should be stored cool and dry.
- Keep out of reach of children and pets.

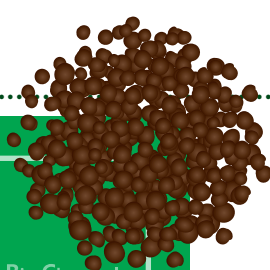


## Applications

| Crop                                             | Usage          |
|--------------------------------------------------|----------------|
| Hot pepper/Tomato/Eggplant                       | 300~450kg / ha |
| Fruits of hard and soft stone (according to age) | 1~4kg / tree   |
| Open Field vegetables                            | 200~300kg / ha |
| Green house vegetables                           | 300~450kg / ha |
| Cashew nut                                       | 1~4kg / tree   |
| Carrot/Radish/Cabbage                            | 200~300kg / ha |
| Mango (according to age)                         | 1~4kg / tree   |
| Potato/Sweet potato                              | 300~450kg / ha |
| Oil palm tree (according to age)                 | 1~4kg / tree   |
| Rubber tree (according to age)                   | 1~4kg / tree   |
| Black pepper (according to age)                  | 0.3~1kg / ha   |
| Banana                                           | 300~400kg / ha |



# ABC Compound


 Agro Bio Chemical

Granule type

18-18-18

## General information

- 01** This product is an environment friendly fertilizer since subsidiary ingredient is small and pH is nearly natural and give no harm to soil when use continuously.
- 02** This product is coated with diatomaceous earth, they are processed to keep dry condition so they prevent from moisture.
- 03** This product contained concentrated ingredient as a high degree fertilizer, This is available to spread in small volume and easy spreading.

## Product analysis

Wt/Wt, %

| N  | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O | MgO |
|----|-------------------------------|------------------|-----|
| 18 | 18                            | 18               | 1   |

## Caution

- Should be stored cool and dry.
- Keep out of reach of children and pets.

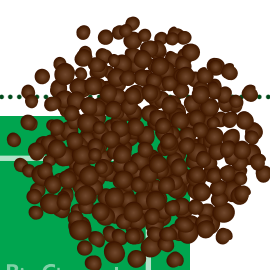


## Applications

| Crop                                                | Usage          |
|-----------------------------------------------------|----------------|
| Hot pepper/Tomato/Eggplant                          | 300~450kg / ha |
| Fruits of hard and soft stone<br>(according to age) | 1~4kg / tree   |
| Open Field vegetables                               | 200~300kg / ha |
| Green house vegetables                              | 300~450kg / ha |
| Cashew nut                                          | 1~4kg / tree   |
| Carrot/Radish/Cabbage                               | 200~300kg / ha |
| Mango (according to age)                            | 1~4kg / tree   |
| Potato/Sweet potato                                 | 300~450kg / ha |
| Oil palm tree (according to age)                    | 1~4kg / tree   |
| Rubber tree (according to age)                      | 1~4kg / tree   |
| Black pepper (according to age)                     | 0.3~1kg / ha   |
| Banana                                              | 300~400kg / ha |

# ABC Compound

Granule type


 Agro Bio Chemical

16-16-8-13S

## General information

- 01** This product is an environment friendly fertilizer since subsidiary ingredient is small and pH is nearly natural and give no harm to soil when use continuously.
- 02** This product is coated with diatomaceous earth, they are processed to keep dry condition so they prevent from moisture.
- 03** This product contained concentrated ingredient as a high degree fertilizer, This is available to spread in small volume and easy spreading.

## Product analysis

Wt/Wt, %

| N  | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O | S  |
|----|-------------------------------|------------------|----|
| 16 | 16                            | 8                | 13 |

## Caution

- Should be stored cool and dry.
- Keep out of reach of children and pets.



## Applications

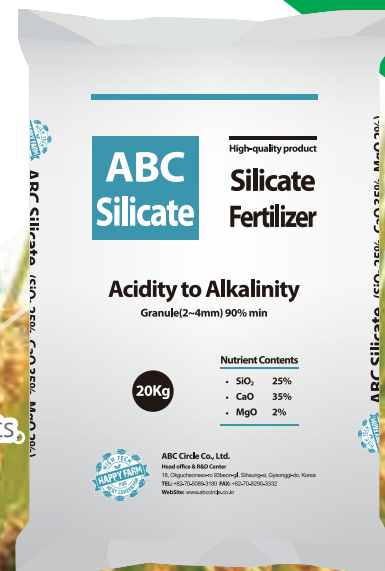
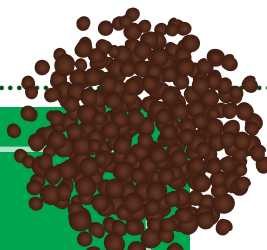
| Crop                                             | Usage          |
|--------------------------------------------------|----------------|
| Hot pepper/Tomato/Eggplant                       | 300~450kg / ha |
| Fruits of hard and soft stone (according to age) | 1~4kg / tree   |
| Open Field vegetables                            | 200~300kg / ha |
| Green house vegetables                           | 300~450kg / ha |
| Cashew nut                                       | 1~4kg / tree   |
| Carrot/Radish/Cabbage                            | 200~300kg / ha |
| Mango (according to age)                         | 1~4kg / tree   |
| Potato/Sweet potato                              | 300~450kg / ha |
| Oil palm tree (according to age)                 | 1~4kg / tree   |
| Rubber tree (according to age)                   | 1~4kg / tree   |
| Black pepper (according to age)                  | 0.3~1kg / ha   |
| Banana                                           | 300~400kg / ha |



# ABC Silicate

Granule type, 2~4mm, 90% min.

Agro Bio Chemical



## General information

- 01 Promote healthy plant growth by change the pH of soil or supply nutrients.
- 02 Silicate helps to increase nutrient uptake by plant and stop leaching of trace elements from upper layers of soils.
- 03 It increase tolerance level of plants against insects-pests by proving all trace elements, which helps to reduce aggregation (coagulation) of elements like salt etc and increase the stability on all essential nutrients.
- 04 It also increase the phosphate available and its rapid absorption.

## Product analysis

Wt/Wt, %

| SiO <sub>2</sub> | CaO | MgO |
|------------------|-----|-----|
| 25               | 35  | 2   |

## Applications

| Crop             | Time                                      | Usage          | Method      |
|------------------|-------------------------------------------|----------------|-------------|
| Rice             | 7days before transplanting and seedling   | 100~300kg / ha | in the soil |
| Vegetable        | 10days before transplanting and seedling  | 150~350kg / ha | in the soil |
| Potato           | 10days before transplanting and seedling  | 200~400kg / ha | in the soil |
| Fruits           | 1~3days before transplanting and seedling | 100~300kg / ha | in the soil |
| Palm and Rubber  | 2 applications per year                   | 1~2kg /tree    | in the soil |
| Soil conditioner | 2 weeks before using other fertilizer     | 400~600kg / ha | in the soil |

## Comparison



Control



ABC Silicate



Control



ABC Silicate



Non-silica body

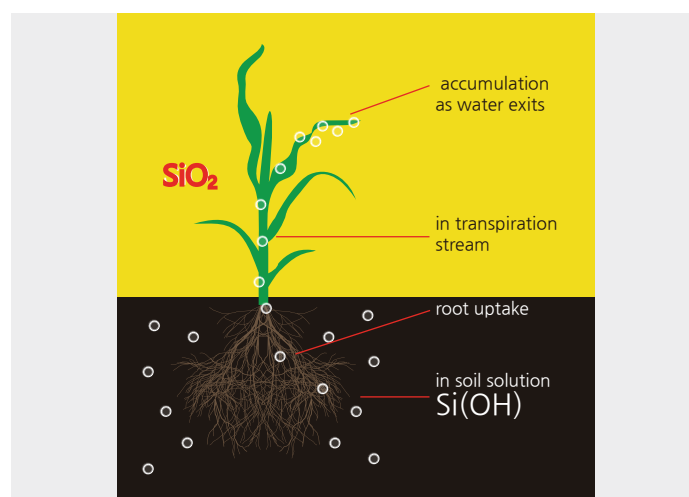


Silica body was formed

1. Increase photosynthetic capacity of rice increase contents of chlorophyll  
Regulating light interception with upright



2. Enhance the disease tolerance.  
Enhance cell wall components



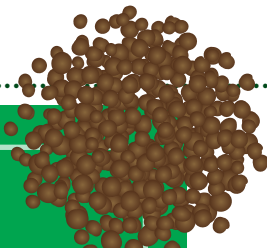
## Caution

- Should be stored cool and dry.
- Keep out of reach of children and pets.

# ABC CaMg

Granule type, 2~5mm, 90% min.

Agro Bio Chemical



## General information

- 01 It is a carbonate mineral comprised of magnesium and calcium.
- 02 ABC CaMg is a fertilizer and a soil conditioner that's used to acidic soils and make them more alkaline.
- 03 ABC CaMg can also be mixed into a nutrient rich fertilizer blend that you can enrich the soil and correct its pH at the same time.
- 04 You need both calcium and magnesium in your soil as they are important elements to keep your plants healthy.

## Product analysis

Wt/Wt, %

| CaO   | S-MgO | H <sub>2</sub> O |
|-------|-------|------------------|
| 27~30 | 15~17 | 2~3              |

## Applications

| Crop              | Time                                 | Usage          | Method      |
|-------------------|--------------------------------------|----------------|-------------|
| Rice (paddy)      | 2weeks before using other fertilizer | 200~300kg / ha | in the soil |
| Vegetable & fruit | 2weeks before using other fertilizer | 200~300kg / ha | in the soil |
| Palm & rubber     | 2 applications per year              | 1.5kg/tree     | in the soil |
| Soil conditioner  | 2weeks before using other fertilizer | 400~600kg / ha | in the soil |

## Caution

- Should be stored cool and dry.
- Keep out of reach of children and pets.





# ABC CaMgO Organic

Granule type



## General information

- 01 If your farm is too acid. Apply ABC CaMgO organic to pH alkali.
- 02 ABC CaMgO Organic can support to solve deficiency of CaO and MgO.
- 03 Calcium is a primary constituent of all cell wall.
- 04 This organic matter 20% can support soil power increase.
- 05 If your farm have repeated cultivation problem, ABC CaMgO can solve the problem.
- 06 Do not mix with chemical fertilizer.

## Product analysis

Wt/Wt, %

| CaO | MgO | Organic mater | Mineral | pH     |
|-----|-----|---------------|---------|--------|
| 40  | 15  | 20            | 1       | 12over |

## Caution

- Should be stored cool and dry.
- Keep out of reach of children and pets.



## Applications

| Crop                                             | Usage          |
|--------------------------------------------------|----------------|
| Hot pepper/Tomato/Eggplant                       | 300 ~ 450kg/ha |
| Fruits of Hard and Soft Stone (according to age) | 1 ~ 4kg/tree   |
| Open Field Vegetables                            | 200 ~ 300kg/ha |
| Green House Vegetables                           | 300 ~ 450kg/ha |
| Cashew nut                                       | 1 ~ 4kg/tree   |
| Carrot/Radish/Cabbage                            | 200 ~ 300kg/ha |
| Mango (according to age)                         | 1 ~ 4kg/tree   |
| Potato/Sweet potato                              | 300 ~ 450kg/ha |
| Oil Palm tree (according to age)                 | 1 ~ 4kg/tree   |
| Rubber tree (according to age)                   | 1 ~ 4kg/tree   |
| Black pepper (according to age)                  | 300g ~ 1kg/ha  |
| Banana                                           | 300 ~ 400kg/ha |

# ABC Amino King Organic

Granule type

## General information

- 01 Safety nutrients utilized microbial metabolites.
- 02 It contains macronutrient & trace nutrient, that are essential for crops.
- 03 It contains various nutritional ingredients.
- 04 It has both quick-acting fertilizer and slow-release fertilizer effects.
- 05 It has no gas damage to root, 100% fully well fermented.
- 06 It has no damage contact with root zone.
- 07 It keep nutrients and moisture very well.

## Product analysis

Wt/Wt, %

| N   |  | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O |  |
|-----|--|-------------------------------|------------------|--|
| 5.5 |  | 1.3                           | 0.3              |  |

| Organic mater | Organic mater | Organic mater | S    | MgO  |
|---------------|---------------|---------------|------|------|
| 80            | 15            | 50            | 0.05 | 0.05 |

## Caution

- Should be stored cool and dry.
- Keep out of reach of children and pets.



## Applications

| Crop                                             | Usage                    |
|--------------------------------------------------|--------------------------|
| Hot pepper/Tomato/Eggplant                       | 300 ~ 450kg/ha           |
| Fruits of Hard and Soft Stone (according to age) | 1 ~ 4kg/tree             |
| Open Field Vegetables                            | 200 ~ 300kg/ha           |
| Green House Vegetables                           | 300 ~ 450kg/ha           |
| Cashew nut                                       | 1 ~ 4kg/tree             |
| Carrot/Radish/Cabbage                            | 200 ~ 300kg/ha           |
| Mango (according to age)                         | 1 ~ 4kg/tree             |
| Potato/Sweet potato                              | 300 ~ 450kg/ha           |
| Oil Palm tree (according to age)                 | 1 ~ 4kg/tree             |
| Rubber tree (according to age)                   | 1 ~ 4kg/tree             |
| Black pepper (according to age)                  | 300g ~ 1kg/ha            |
| Banana                                           | 300 ~ 400kg/ha           |
| Transplanting plants                             | 10~20g/ hole in the soil |



# ABC Waterfull

Agro Bio Chemical

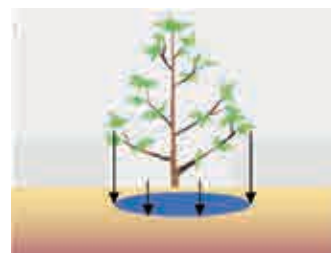
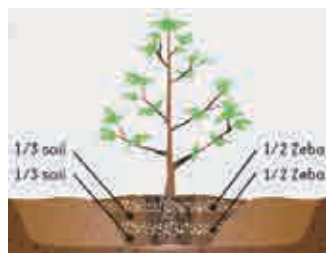
Granule type

## General information

- 01** Catching water strongly and provide water constantly for crops in soil.
- 02** Crops can absorb water-soluble nutrients as well as water itself.
- 03** In the early season, Uniform and stable growth happen.
- 04** In later season, Crop yield increases finally.
- 05** ABC Water full Consists of perlite and polymer component.

## Applications

| Crop                  | Usage                 | Method                                    |
|-----------------------|-----------------------|-------------------------------------------|
| Fruits and vegetables | 3 ~ 10kg/ha           | Soil incorporation before planting/sowing |
| Nursery soil          | 50g /50L nursery soil | Mix with nursery                          |



## Comparison



Control ABC Waterfull



Control ABC Waterfull

## Caution

- Should be stored cool and dry.
- Keep out of reach of children and pets.

## ABC WSF

Agro Bio Chemical

Powder type

## General information

- 01 100% ionization nutrient.
- 02 Small molecular size amino acid for the increase absorption rate.
- 03 Polymer protein linked to nutrient for the long time absorption.
- 04 Chelated trace elements.

## Product analysis

Wt/Wt, %

| Type     | N  | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O | Trace elements                                                                  |
|----------|----|-------------------------------|------------------|---------------------------------------------------------------------------------|
| WSF1     | 10 | 10                            | 30               | MgO 2%, Mn 0.015%,<br>B 0.015%, Fe 0.035%,<br>Mo 0.013%, Zn 0.01%,<br>Cu 0.003% |
| WSF2     | 30 | 10                            | 10               | MgO 2%, Mn 0.015%,<br>B 0.015%, Fe 0.035%,<br>Mo 0.013%, Zn 0.01%,<br>Cu 0.003% |
| WSF3     | 20 | 20                            | 20               | MgO 2%, Mn 0.015%,<br>B 0.015%, Fe 0.035%,<br>Mo 0.013%, Zn 0.01%,<br>Cu 0.003% |
| WSF4     | 16 | 8                             | 34               | MgO 2%, Mn 0.015%,<br>B 0.015%, Fe 0.035%,<br>Mo 0.013%, Zn 0.01%,<br>Cu 0.003% |
| Gold-cal | 13 | -                             | 4                | CaO 17%, MgO 4%,<br>Zn 0.015%, B 0.005%                                         |

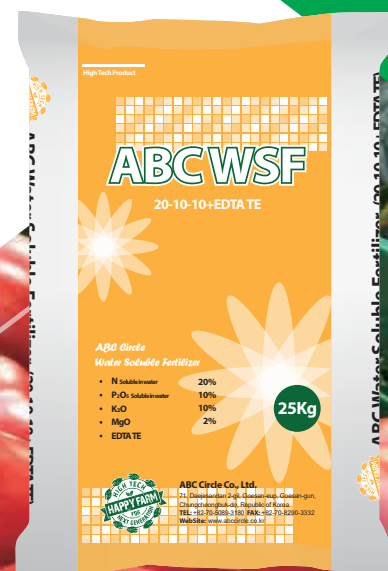
\*\* All types of ABC WSF also included polysaccharide, vitamin and amino acid.

## Applications

| Crop      | Dilution          | Method                            |
|-----------|-------------------|-----------------------------------|
| All crops | 10g<br>/20L water | Foliar spray<br>or soil drenching |

## Caution

- Should be stored cool and dry.
- Keep out of reach of children and pets.
- Keep from the moisture after opening the bag.





# ABC WSF Micro-combi

Agro Bio Chemical

Powder type

## General information

- 01** Improves yield quality and appearance.
- 02** Reduces nutritional deficiencies.
- 03** ABC Micro-Combi is a highly concentrated micro and chelated micro elements.
- 04** ABC Micro-Combi has proven beneficial effects upon plants by stimulating root development.
- 05** Reduced disease intensity and frequency.
- 06** Improved yield and quality.
- 07** Reduces nutritional deficiencies.

## Product analysis

Wt/Wt, %

| MgO | Mn | Fe  | B   |
|-----|----|-----|-----|
| 9   | 3  | 3.6 | 0.2 |

| Organic mater | Organic mater | S   | MgO |
|---------------|---------------|-----|-----|
| 3             | 1.5           | 0.3 | 2   |

## Applications

| Crop                           | Dilution        | Usage     | Method               |
|--------------------------------|-----------------|-----------|----------------------|
| Hot pepper / Tomato / Eggplant | 500~1,000 times | 1.2L/ha   | Spray and irrigation |
| Fruits of Hard and Soft Stone  | 500~1,000 times | 2L/ha     | Spray and irrigation |
| Open field Vegetables          | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Green House Vegetables         | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Cashew nut                     | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Carrot / Radish / Cabbage      | 500~1,000 times | 1L/ha     | Spray and irrigation |
| Mango                          | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Potato / Sweet potato          | 500~1,000 times | 1L/ha     | Spray and irrigation |
| Black pepper                   | 500~1,000 times | 1~1.5L/ha | Spray and irrigation |
| Banana                         | 500~1,000 times | 1~1.5L/ha | Spray and irrigation |

Nutrient deficiency



Nutrient deficiency



Nutrient deficiency



Nutrient deficiency



## Caution

- Should be stored cool and dry.
- Keep out of reach of children and pets.

# ABC MKP

Powder type

 Agro Bio Chemical

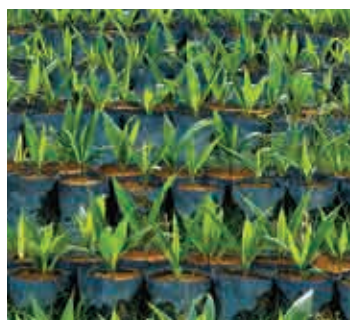

## General information

- 01** Fully water-soluble fertilizer.
- 02** ABC MKP helps root establishment.
- 03** Early growth stages of root and vegetable crops.
- 04** Fruit and vegetable size, sugar and color development.
- 05** Flower development of fruit trees and ornamentals.

## Product analysis

Wt/Wt, %

| N  | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O | K <sub>2</sub> O |
|----|-------------------------------|------------------|------------------|
| 52 | 22.7                          | 34               | 28.2             |

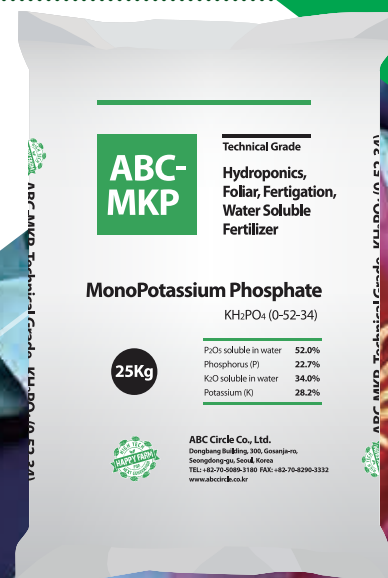


## Applications

| Crop                                                    | Time                                        | Usage                    | Method             |
|---------------------------------------------------------|---------------------------------------------|--------------------------|--------------------|
| Apple, pear, peach, cherry, apricot, coffee, nectarine. | End of fruit growth / Pre-maturation        | 4Kg/ha                   | Foliar application |
| Citrus fruits                                           | Pre-veraison / veraison                     | 3~4Kg/ha                 | Foliar application |
| Wine grapes, table grapes                               | Pre-veraison / veraison                     | 2.5~3Kg/ha<br>3Kg/ha     | Foliar application |
| Tomato, pepper, eggplant                                | Pre-veraison / Periodically every 10~15days | 2.5~3Kg/ha<br>2~2.5Kg/ha | Foliar application |
| Strawberry, blueberries                                 | From the whitening of the fruit             | 1.5~2Kg/ha               | Foliar application |

## Caution

- Should be stored cool and dry.
- Keep out of reach of children and pets.
- ABC MKP can be mixed with water-soluble fertilizers, except for calcium(Ca++) fertilizers and concentrated magnesium(Mg++) fertilizer.
- Mixture with other chemicals should be sprayed onto small area prior to commercial treatment, in order to assess whether an adverse effect occurs.





# ABC BIG CELL

Agro Bio Chemical

Liquid type

## General information

- 01** ABC BIG-CELL is an organic growth stimulant.
- 02** ABC BIG-CELL stimulates fruit cell division and cell growth.
- 03** ABC BIG-CELL promote root cell division and cell growth.
- 04** ABC BIG-CELL maximize utilization of moisture and nutrients.
- 05** ABC BIG-CELL work for regulation of cell water content, cell turgidity and rates of transpiration.
- 06** ABC BIG-CELL affect the crop growth, quality and yield.

## Product analysis

Wt/Wt, %

| N             | CaO     | Organic mater | Organic acid |
|---------------|---------|---------------|--------------|
| 6             | 6       | 30            | 2            |
| Bio stimulate | Vitamin | Amino acid    |              |
| 30            | 0.1     | 5             |              |

## Applications

| Crop                           | Dilution        | Usage     | Method               |
|--------------------------------|-----------------|-----------|----------------------|
| Hot pepper / Tomato / Eggplant | 500~1,000 times | 1.2L/ha   | Spray and irrigation |
| Fruits of Hard and Soft Stone  | 500~1,000 times | 2L/ha     | Spray and irrigation |
| Open field Vegetables          | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Green House Vegetables         | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Cashew nut                     | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Carrot / Radish / Cabbage      | 500~1,000 times | 1L/ha     | Spray and irrigation |
| Mango                          | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Potato / Sweet potato          | 500~1,000 times | 1L/ha     | Spray and irrigation |
| Black pepper                   | 500~1,000 times | 1~1.5L/ha | Spray and irrigation |
| Banana                         | 500~1,000 times | 1~1.5L/ha | Spray and irrigation |



## Caution

- Should be stored cool.
- Keep out of reach of children and pets.

# ABC Booster

Agro Bio Chemical

Liquid type

## General information

- 01 Cell division and cell growth materials by chemical reaction technique,
- 02 Good polination ability and increase 50% over productivity,
- 03 Increase trace element and micro and micro nutrient by polymer protein,
- 04 Polysaccharide and amino acid can make high sugar and good color,

## Product analysis

| Bio stimulants        | Vitamins      | Amino acids   |
|-----------------------|---------------|---------------|
| Stimulation           | Antioxidant   | Growing agent |
| Polysaccharides       | Betaine       |               |
| Flexible for unstable | Cell division |               |

## Comparison



## Applications

| Crop                                                        | Time                                                                                                    | Usage                          | Method                         |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|
| Fruits                                                      | A week before flowering, after a week of falling blossoms, in the beginning and middle of fruit auxesis | 0.5~1L/ha (dilute 2,000-times) | Foliar spray or soil drenching |
| Fruits and vegetables green vegetables root bulb vegetables | Within 5 days after transplant-ation every 20 days after first treatment                                | 0.5~1L/ha (dilute 2,000-times) | Foliar spray or soil drenching |
| Strawberry                                                  | Within 5 days after transplant-ation, before the first flowering, every 20 days after flowering         | 0.5~1L/ha (dilute 2,000-times) | Foliar spray or soil drenching |
| Flower & turf                                               | Within 5 days after transplant-ation, before the first flowering, every 10 days after flowering         | 0.5~1L/ha (dilute 2,000-times) | Foliar spray or soil drenching |

## Caution

- Should be stored cool.
- Keep out of reach of children and pets.
- ABC Booster is compatible with most, except growth regulators.



# ABC Gel-type

Gel type

 Agro Bio Chemical


## General information

- 01** ABC Gel-type has the advantages of high concentration of powder and convenience of liquid phase.
- 02** ABC Gel-type has no distribution and storage problems. (Dilation and hardening)
- 03** ABC Gel-type dissolves and absorbs faster.

## Product analysis

Wt/Wt, %

| N  | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O | Trace-element | Organic polymer |
|----|-------------------------------|------------------|---------------|-----------------|
| 20 | 20                            | 20               | EDTA-TE       | Metabolites     |
| 0  | 30                            | 36               | EDTA-TE       | Metabolites     |
| 17 | 17                            | 17               | EDTA-TE       | Metabolites     |

## Applications

| Crop                           | Dilution          | Usage     | Method               |
|--------------------------------|-------------------|-----------|----------------------|
| Hot pepper / Tomato / Eggplant | 1,000~2,000 times | 1L/ha     | Spray and irrigation |
| Fruits of Hard and Soft Stone  | 1,000~2,000 times | 2L/ha     | Spray and irrigation |
| Open field Vegetables          | 1,000~2,000 times | 1L/ha     | Spray and irrigation |
| Green House Vegetables         | 1,000~2,000 times | 1L/ha     | Spray and irrigation |
| Cashew nut                     | 1,000~2,000 times | 1~2L/ha   | Spray and irrigation |
| Carrot / Radish / Cabbage      | 1,000~2,000 times | 1L/ha     | Spray and irrigation |
| Mango                          | 1,000~2,000 times | 1~2L/ha   | Spray and irrigation |
| Potato / Sweet potato          | 1,000~2,000 times | 1L/ha     | Spray and irrigation |
| Black pepper                   | 1,000~2,000 times | 1~1.5L/ha | Spray and irrigation |
| Banana                         | 1,000~2,000 times | 1~1.5L/ha | Spray and irrigation |

## Caution

- Should be stored cool.
- Keep out of reach of children and pets.



# ABC Sugaring

Agro Bio Chemical

Liquid type

## General information

- 01** Acting accumulation of sugar.
- 02** As the sugar contents is increasing it promote the movement of nutrients and synthesis.
- 03** Polymer protein linked to nutrient for the long time absorption.
- 04** The effects appear rapidly by free amino acids and chelated trace elements,

## Product analysis

Wt/Wt, %

| N | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O | Bio stimulant   |
|---|-------------------------------|------------------|-----------------|
| 1 | 5                             | 5                | Natural hormone |

\*\* All types of ABC WSF also included polysaccharide, vitamin and amino acid.



## Applications

| Crop      | Dilution        | Method                         |
|-----------|-----------------|--------------------------------|
| All crops | 20ml /20L water | Foliar spray or soil drenching |

## Caution

- Keep out of reach of children and pets.
- ABC Sugaring should be stored in frost free conditions with optimum storage range between 5~40°C.
- ABC Sugaring is a non-hazardous and non-flammable foliar fertilizer.
- It must be diluted by 2,000times at 35°C or higher.
- Don't mix with calcium product.
- This is reversible on shaking.



# ABC Coloring

Agro Bio Chemical

Liquid type

## General information

- 01** Catching water strongly and provide water constantly for crops in soil.
- 02** Crops can absorb water-soluble nutrients as well as water itself.
- 03** In the early season, Uniform and stable growth happen.
- 04** In later season, Crop yield increases finally.
- 05** ABC Water full Consists of perlite and polymer component.

## Product analysis

Wt/Wt, %

| CaO | B <sub>2</sub> O <sub>3</sub> | Organic acid |
|-----|-------------------------------|--------------|
| 5   | 1.5                           | 20           |

| Bio stimulator | Vitamin | EDTA-TE |
|----------------|---------|---------|
| 5              | 1       | 1       |

## Caution

- Keep out of reach of children and pets.
- ABC Coloring should be stored in frost free conditions with optimum storage range between 5~40°C.
- ABC Coloring is a non-hazardous and non-flammable foliar fertilizer.
- Don't mix with calcium product.
- This is reversible on shaking.

## Applications

| Crop                                                    | Time                                        | Usage                  | Method             |
|---------------------------------------------------------|---------------------------------------------|------------------------|--------------------|
| Apple, pear, peach, cherry, apricot, coffee, nectarine. | End of fruit growth / Pre-maturation        | 4L/ha                  | Foliar application |
| Citrus fruits                                           | Pre-veraison / veraison                     | 3~4L/ha                | Foliar application |
| Wine grapes, table grapes                               | Pre-veraison / veraison                     | 2.5~3L/ha<br>3L/ha     | Foliar application |
| Tomato, pepper, eggplant                                | Pre-veraison / Periodically every 10~15days | 2.5~3L/ha<br>2~2.5L/ha | Foliar application |
| Strawberry, blueberries                                 | From the whitening of the fruit             | 1.5~2L/ha              | Foliar application |
| Sugar beet                                              | 2 treatments during the growth of tap root  | 2~3L/ha                | Foliar application |



# ABC Ortho silicic acid

Liquid type

## General information

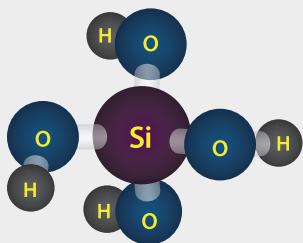
- 01 Silicic acid is very important for optimal plant health.
- 02 It helps growers build stronger plants, optimize crop nutrition, plus increase yields and quality. metal toxicity, salinity, drought and temperature stresses.
- 03 ABC Ortho silicic acid  $\text{Si(OH)}_4$  have 20,000 times higher water solubility and 2~5 times higher uptake ability than other silicic acid.
- 04 When added water, ABC Ortho silicic acid break apart into monomer form, this is how silicon becomes immediately and rapidly available to plants.

## Product analysis

Wt/Wt, %

| $\text{Si(OH)}_4$ | MnO | Zn   |
|-------------------|-----|------|
| 5                 | 0.1 | 0.05 |

### Molecule structure of Ortho silicic acid

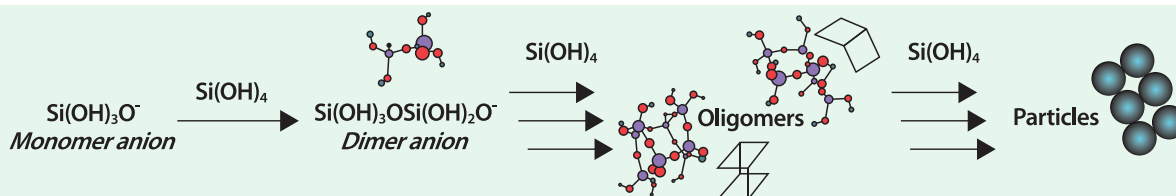


## Caution

- Should be stored cool.
- Keep out of reach of children and pets.
- This is reversible on shaking.

## Applications

| Crop                     | Usage          | Method                           |
|--------------------------|----------------|----------------------------------|
| Leaf vegetable           | 0.2~0.25Lt /ha | 10~15 days interval<br>3~5 times |
| Pepper, eggplant, tomato | 0.3Lt/ha       | 10~15 days interval<br>5~7 times |
| Melon                    | 0.3Lt/ha       | 7~10 days interval<br>3~5 times  |
| Fruit                    | 0.3~0.35Lt /ha | 10~15 days interval<br>3~5 times |
| Strawberry, blueberries  | 0.25~0.3Lt /ha | 10~15 days interval<br>3~5 times |
| Carnation, lily, rose    | 0.25~0.3Lt /ha | 7~10 days interval<br>3~5 times  |
| Paddy, wheat, barley     | 0.25~0.3Lt /ha | 15~20 days interval<br>2 times   |



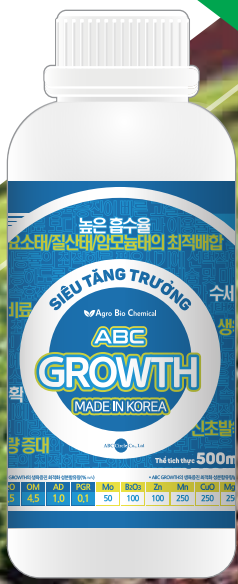
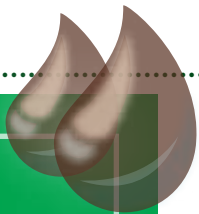
Heather A. Currie, and Carole C. Perry Ann Bot 2007;100:1383-1389



# ABC Growth

Agro Bio Chemical

Liquid type



## General information

- 01 Included all sorts of essential nutrients that can fast absorb and use, natrual hormones and L-type amino acid,
- 02 Excellent recovery effect for root cells that was damaged by over supplying fertilizer and external environment.
- 03 Promote root cell division by using natrual uprooting hormone,
- 04 Keep out durability and increase yield of root crops, by increasing new root growth,
- 05 Soil conditioning and promote soil microbe activity by organic acid.

## Product analysis

Wt/Wt, %

| T-N | NO <sub>3</sub> <sup>-</sup> | NH <sub>4</sub> <sup>+</sup> | Urea-N |
|-----|------------------------------|------------------------------|--------|
| 17  | 6.5                          | 3.5                          | 7.0    |

| K <sub>2</sub> O | CaO | MgO | B <sub>2</sub> O <sub>3</sub> | Mo     |
|------------------|-----|-----|-------------------------------|--------|
| 1                | 4.5 | 2   | 0.05                          | 0.0005 |

## Applications

| Crop                            | Usage                            | Method                                                                 |
|---------------------------------|----------------------------------|------------------------------------------------------------------------|
| Horticultural crop & fruit tree | 500~1,000 times (1~2ml/1L water) | Soil drenching at thickning stage and foliar spraying after transplant |

## Caution

- Should be stored cool area.
- Keep out of reach of children and pets.
- Do small test before use the product with strong acid or alkari.
- Apply in early to mid-morning or late afternoon. spray in the dusk of sunshine or cloudy and avoid high temperature.
- This is reversible on shaking.



# ABC 2030PK

Agro Bio Chemical

Liquid type

## General information

- 01 High density liquid fertilizer that is fast and powerful in small amounts,
- 02 Strengthen the roots and flush surfaces of horticultural plants,
- 03 Increase the yield on crops by increasing the rate of fruiting and flowering,
- 04 Increase the value of the crop by helping to increase fruit growth, sugar, and color.



## Product analysis

Wt/Wt, %

| P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O |
|-------------------------------|------------------|
| 20                            | 28               |



## Applications

| Crop            | Dilution                    | Method                                                                                            |
|-----------------|-----------------------------|---------------------------------------------------------------------------------------------------|
| Leaf vegetable  | 1,000 times<br>1ml/1L water | 15 days interval<br>1~4 times application                                                         |
| Fruit vegetable | 1,000 times<br>1ml/1L water | 15 days interval<br>1~4 times application                                                         |
| Fruit tree      | 1,000 times<br>1ml/1L water | Thickening stage: 7 days<br>interval 2~3 times<br>early coloring period:<br>1~2 times application |
| All crops       | 1,000 times<br>1ml/1L water | 15 days interval<br>1~4 times application                                                         |

## Caution

- Should be stored cool area.
- Keep out of reach of children and pets.
- Do not mix with silicate or calcium.



# ABC Agroforce



Liquid type

## General information

- 01 This is highly available phosphorous sources, Phosphate phosphorous,
- 02 Phosphorous is essential to all plants for optimum yields,
- 03 This has function of control soil born fungal disease phytophthora.sp, and Fusarium.sp,
- 04 Fully soluble phosphate phosphorous source.
- 05 Improved plant nutrient health and disease resistance.
- 06 Improve rooting action.

## Product analysis

Wt/Wt, %

| N | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O |
|---|-------------------------------|------------------|
| 0 | 30                            | 20               |



## Applications

| Crop                           | Dilution        | Usage     | Method               |
|--------------------------------|-----------------|-----------|----------------------|
| Hot pepper / Tomato / Eggplant | 500~1,000 times | 1L/ha     | Spray and irrigation |
| Fruits of Hard and Soft Stone  | 500~1,000 times | 2L/ha     | Spray and irrigation |
| Open field Vegetables          | 500~1,000 times | 1L/ha     | Spray and irrigation |
| Green House Vegetables         | 500~1,000 times | 1L/ha     | Spray and irrigation |
| Cashew nut                     | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Carrot / Radish / Cabbage      | 500~1,000 times | 1L/ha     | Spray and irrigation |
| Mango                          | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Potato / Sweet potato          | 500~1,000 times | 1L/ha     | Spray and irrigation |
| Black pepper                   | 500~1,000 times | 1~1.5L/ha | Spray and irrigation |
| Banana                         | 500~1,000 times | 1~1.5L/ha | Spray and irrigation |

## Caution

- Should be stored cool.
- Keep out of reach of children and pets.

## ABC Cal B

Agro Bio Chemical

Liquid type

## General information

- 01** Complexed calcium with SFB(special and functional bio-copolymer) fertilizer, enhancement to keep high nutrition level in plant mixable with the most common nutrient and pesticides.
- 02** It is not phytotoxic and does not cause rustiness on the rustiness by foliar application increases the concentration of calmodulin protein.
- 03** ABC CalB is specifically demanded for the prevention and curative treatment of bitter pit in apples / tomato apical rot / rot(mottling) of sweet pepper rot (spottiness) / melon dry leaves / tip burn of leaf vegetables / cherry, peach, nectarine, plum, watermelon cracking
- 04** Promotes calcium rapid translocation in fruit and flowers.

## Product analysis

Wt/Wt, %

| CaO | B <sub>2</sub> O <sub>3</sub> |
|-----|-------------------------------|
| 14  | 4.5                           |

## Caution

- Should be stored cool.
- Keep out of reach of children and pets.
- Do small tests before mixing with phosphorus, sulfur and copper.

## Applications

| Crop                           | Usage     | Method                                                      |
|--------------------------------|-----------|-------------------------------------------------------------|
| Leaf vegetable                 | 2~3L/ha   | Foliar applications every 10-15days from post fruit setting |
| Fruit vegetable                | 1~1.5L/ha | Periodically every 10-12days after trans-plantation.        |
| Fruit tree                     | 1.5~2L/ha | Periodically every 12-15days after trans-plantation.        |
| All crops (Foliar application) | 1~1.5L/ha | Applications every 8-10 days during the grow-ing season.    |
| All crops (Fertigation)        | 30L/ha    | Treatments in post fruit setting.                           |





# ABC Micro-combi liquid

Liquid type

## General information

- 01** Improves yield, quality and appearance.
- 02** Reduces nutritional deficiencies.
- 03** ABC Micro-Combi is a highly concentrated micro and chelated micro elements,
- 04** ABC Micro-Combi has proven beneficial effects upon plants by stimulating root development,
- 05** Reduced disease intensity and frequency.
- 06** Reduces nutritional deficiencies.

## Product analysis

Wt/Wt, %

| Mo    | MgO | Fe  |
|-------|-----|-----|
| 0.003 | 2.4 | 3.2 |

| Mn  | Zn | Cu  | Bio PGPR |
|-----|----|-----|----------|
| 2.4 | 3  | 0.2 | 2        |

## Applications

| Crop                           | Dilution        | Usage     | Method               |
|--------------------------------|-----------------|-----------|----------------------|
| Hot pepper / Tomato / Eggplant | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Fruits of Hard and Soft Stone  | 500~1,000 times | 2L/ha     | Spray and irrigation |
| Open field Vegetables          | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Green House Vegetables         | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Cashew nut                     | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Carrot / Radish / Cabbage      | 500~1,000 times | 1L/ha     | Spray and irrigation |
| Mango                          | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Potato / Sweet potato          | 500~1,000 times | 1L/ha     | Spray and irrigation |
| Black pepper                   | 500~1,000 times | 1~1.5L/ha | Spray and irrigation |
| Banana                         | 500~1,000 times | 1~1.5L/ha | Spray and irrigation |

## Caution

- Should be stored cool.
- Keep out of reach of children and pets.



# ABC Boron



Liquid type

## General information

- 01 ABC Boron is a liquid micronutrient fertilizer containing boron for foliar application.
- 02 High quality and consistent true liquid formulation.
- 03 This product impact on cell development and synthesis of cell wall material.
- 04 Pollination is greatly influenced by boron availability.
- 05 Boron deficiency causing distorted flowers leading to flower and boll shedding in server cases.
- 06 pH > 6.5 should be identified as being at greatest risk of boron deficiency.

## Product analysis

Wt/Wt, %

| N | B <sub>2</sub> O <sub>3</sub> |
|---|-------------------------------|
| 5 | 35                            |

## Caution

- Should be stored cool.
- Keep out of reach of children and pets.
- Do not mix with phosphates or sulphates.



## Applications

| Crop                           | Dilution        | Usage     | Method               |
|--------------------------------|-----------------|-----------|----------------------|
| Hot pepper / Tomato / Eggplant | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Fruits of Hard and Soft Stone  | 500~1,000 times | 2L/ha     | Spray and irrigation |
| Open field Vegetables          | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Green House Vegetables         | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Cashew nut                     | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Carrot / Radish / Cabbage      | 500~1,000 times | 1L/ha     | Spray and irrigation |
| Mango                          | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Potato / Sweet potato          | 500~1,000 times | 1L/ha     | Spray and irrigation |
| Black pepper                   | 500~1,000 times | 1~1.5L/ha | Spray and irrigation |
| Banana                         | 500~1,000 times | 1~1.5L/ha | Spray and irrigation |



## ABC NK

Agro Bio Chemical

Liquid type

## General information

- 01 ABC NK is a highly concentrated Nitrogen, Potassium and trace element,
- 02 ABC NK is required in large amounts for normal plant growth and development,
- 03 ABC NK is controlling stomatal movements and photosynthesis,
- 04 ABC NK is involved in transport of sugars from the leaf.
- 05 ABC NK should be available to the growing crop during the early vegetative stages,
- 06 ABC NK is highly appreciated to additive fertilizer during the middle fruit stages,
- 07 Fully water soluble and chelated trace elements.

## Product analysis

Wt/Wt, %

| N  | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O |
|----|-------------------------------|------------------|
| 12 | 0                             | 8                |

| Mn     | Zn     | Cu     | B <sub>2</sub> O <sub>3</sub> | MgO    |
|--------|--------|--------|-------------------------------|--------|
| 450ppm | 150ppm | 150ppm | 90ppm                         | 400ppm |

## Applications

| Crop                           | Dilution        | Usage     | Method               |
|--------------------------------|-----------------|-----------|----------------------|
| Hot pepper / Tomato / Eggplant | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Fruits of Hard and Soft Stone  | 500~1,000 times | 2L/ha     | Spray and irrigation |
| Open field Vegetables          | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Green House Vegetables         | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Cashew nut                     | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Carrot / Radish / Cabbage      | 500~1,000 times | 1L/ha     | Spray and irrigation |
| Mango                          | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Potato / Sweet potato          | 500~1,000 times | 1L/ha     | Spray and irrigation |
| Black pepper                   | 500~1,000 times | 1~1.5L/ha | Spray and irrigation |
| Banana                         | 500~1,000 times | 1~1.5L/ha | Spray and irrigation |

## Caution

- Should be stored cool.
- Keep out of reach of children and pets.



# ABC ROOTING

Agro Bio Chemical

Liquid type

## General information

- 01** Safety nutrients utilized microbial metabolites.
- 02** It contains macronutrient & Trace elements, That are essential for crops.
- 03** It contains various nutritional ingredients.
- 04** It has no gas damage to Root, 100% fully well fermented.
- 05** It has no damage contact with root zone.
- 06** It keep nutrients and moisture very well.

## Product analysis

Wt/Wt, %

| MgO | Fe  | Mn  | Zn   |
|-----|-----|-----|------|
| 1.5 | 3.5 | 0.1 | 0.02 |

| Cu    | B <sub>2</sub> O <sub>3</sub> | Mo    | Bio stimulate |
|-------|-------------------------------|-------|---------------|
| 0.005 | 0.01                          | 0.004 | 0.05          |

## Applications

| Crop                           | Dilution        | Usage     | Method               |
|--------------------------------|-----------------|-----------|----------------------|
| Hot pepper / Tomato / Eggplant | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Fruits of Hard and Soft Stone  | 500~1,000 times | 2L/ha     | Spray and irrigation |
| Open field Vegetables          | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Green House Vegetables         | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Cashew nut                     | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Carrot / Radish / Cabbage      | 500~1,000 times | 1L/ha     | Spray and irrigation |
| Mango                          | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Potato / Sweet potato          | 500~1,000 times | 1L/ha     | Spray and irrigation |
| Black pepper                   | 500~1,000 times | 1~1.5L/ha | Spray and irrigation |
| Banana                         | 500~1,000 times | 1~1.5L/ha | Spray and irrigation |

## Caution

- Should be stored cool.
- Keep out of reach of children and pets.





ABC K<sub>31</sub>

Agro Bio Chemical

Liquid type

## General information

- 01 Potassium is a macro element required in large amounts for normal plant growth and development,
- 02 ABC K31 is involved in metabolism and plant water relations,
- 03 Potassium also plays an important role in photosynthesis and in involved in transport of sugars from the leaf,
- 04 ABC K31 is highly concentrated potassium liquid type.
- 05 ABC K31 is controlling stomatal movements.
- 06 ABC K31 support Cell division, Sugar contents and Color change.
- 07 ABC K31 support increase yield.

## Product analysis

Wt/Wt, %

| K <sub>2</sub> O |
|------------------|
| 31               |



## Applications

| Crop                           | Dilution        | Usage     | Method               |
|--------------------------------|-----------------|-----------|----------------------|
| Hot pepper / Tomato / Eggplant | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Fruits of Hard and Soft Stone  | 500~1,000 times | 2L/ha     | Spray and irrigation |
| Open field Vegetables          | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Green House Vegetables         | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Cashew nut                     | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Carrot / Radish / Cabbage      | 500~1,000 times | 1L/ha     | Spray and irrigation |
| Mango                          | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Potato / Sweet potato          | 500~1,000 times | 1L/ha     | Spray and irrigation |
| Black pepper                   | 500~1,000 times | 1~1.5L/ha | Spray and irrigation |
| Banana                         | 500~1,000 times | 1~1.5L/ha | Spray and irrigation |

## Caution

- Should be stored cool.
- Keep out of reach of children and pets.

# ABC Flowering

Agro Bio Chemical

Liquid type

## General information

- 01** A direct-intake boron liquid fertilizer.
- 02** High quality and consistent true liquid formulation **no sedimentation**.
- 03** Excellent plant absorption - quickly taken up by the crop, very mobile within the plant and lasting feeding effect.
- 04** Suitable for crops with high boron requirements, such as beets, vines, olive, cauliflowers etc. or for crop stages requiring an immediate intake of high boron quantities. (flowering, fruit set, etc)
- 05** Suitable for application by foliar spraying and through the irrigation system.

## Product analysis

Wt/Wt, %

| T-N | B <sub>2</sub> O <sub>3</sub> | MgO    | MnO    |
|-----|-------------------------------|--------|--------|
| 5   | 12                            | 400ppm | 450ppm |

| Zn     | Cu     | Bio stimulator |
|--------|--------|----------------|
| 190ppm | 170ppm | 5              |



## Applications

| Crop                                              | Usage                       | Method                                                                                                                            |
|---------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| General                                           | 1~1.5Lt/1,000m <sup>2</sup> | Irrigation system                                                                                                                 |
|                                                   | 100ml/100Lt                 | Spraying solution                                                                                                                 |
| Olive tree vines and pepper                       | 3~4L/ha                     | 1~2 foliar applications<br>1st application at the beginning of flowering (inflorescence stage)<br>2nd application after fruit set |
| Stone fruit                                       | 2.5~3L/ha or 3L/ha          | Applications at the end of flowering and after petal fall                                                                         |
| Apple, pear                                       | 2.5~3L/ha or 2~2.5L/ha      | Applications at the end of flowering and after petal fall                                                                         |
| Tomato, cucumber                                  | 1.5~2L                      | Application before the setting of each cross                                                                                      |
| Leafy vegetables (cauliflower, cabbage, broccoli) | 2~3L                        | 4-6 leaf stage with repeat applications at the above rate at 10-14 day intervals for moderate to severe deficiency                |
| Pepper                                            | 1~2.5L/1,000m <sup>2</sup>  | Use before flowering                                                                                                              |

## Caution

- Should be stored cool.
- Keep out of reach of children and pets.
- This is reversible on shaking.





# ABC SUN BLOCK

Agro Bio Chemical

Powder type

## General information

- 01 ABC SUN BLOCK is a Kaolin, Silicate, UV Protect and Surfactant,
- 02 ABC SUN BLOCK assist in the prevention and reduction of sun burn damage to fresh produce and general crops,
- 03 ABC SUN BLOCK forms a White and Grey protective film,
- 04 ABC SUN BLOCK uniform coverage is also required curing periods of heat stress,
- 05 ABC SUN BLOCK white material is no harmful to crop and human.
- 06 For the best results apply this product in early morning or late evening.

## Residue removal

ABC SUN BLOCK residues are relatively easy to remove by washing, wiping or brushing of the produce. Care is required to remove residue from hard to reach areas such as the stem end and clayx. Modifications to the packing-line brushing system may be required to improve removal.

ABC SUN BLOCK should not be tank mixed or applied with other Agricultural chemicals, Best field results are obtained when ABC SUN BLOCK is applied on its own.

## Applications

| Crop        | Dilution      | Usage     | Method               |
|-------------|---------------|-----------|----------------------|
| Pre-harvest | 1kg /200~500L | 2~3kg ha  | Spray                |
| Post-havest | 2kg /200~500L | 3~5kg /ha | Spray and irrigation |

## Caution

- Should be stored cool and dry.
- Keep out of reach of children and pets.



# ABC Amino enzyme

Agro Bio Chemical

Liquid type

## General information

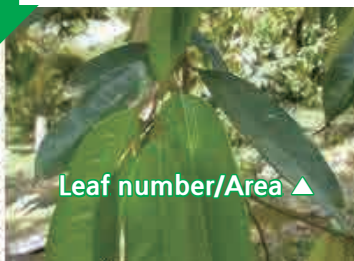
- 01 ABC Amino enzyme is an stimulant, applications result in increased root growth and yield in a wide range of crops.
- 02 ABC Amino enzyme is concentrated amino acid extract solution.
- 03 ABC Amino enzyme contained amino acid, chemical fertilizer Biohormon and organic material.
- 04 ABC Amino enzyme improved germination.
- 05 ABC Amino enzyme improved yield and earlier harvest.
- 06 ABC Amino enzyme improved plant health.

## Product analysis

Wt/Wt, %

| OM | T-N | K <sub>2</sub> O | Amino | MgO    |
|----|-----|------------------|-------|--------|
| 18 | 3.0 | 7.8              | 3     | 400ppm |

| MnO    | Zn     | Cu     | B <sub>2</sub> O <sub>3</sub> | Poly-saccharide | Vitamin |
|--------|--------|--------|-------------------------------|-----------------|---------|
| 450ppm | 190ppm | 170ppm | 90ppm                         | 11              | 0.5     |



## Applications

| Crop                           | Dilution        | Usage     | Method               |
|--------------------------------|-----------------|-----------|----------------------|
| Hot pepper / Tomato / Eggplant | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Fruits of Hard and Soft Stone  | 500~1,000 times | 2L/ha     | Spray and irrigation |
| Open field Vegetables          | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Green House Vegetables         | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Cashew nut                     | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Carrot / Radish / Cabbage      | 500~1,000 times | 1L/ha     | Spray and irrigation |
| Mango                          | 500~1,000 times | 1~2L/ha   | Spray and irrigation |
| Potato / Sweet potato          | 500~1,000 times | 1L/ha     | Spray and irrigation |
| Black pepper                   | 500~1,000 times | 1~1.5L/ha | Spray and irrigation |
| Banana                         | 500~1,000 times | 1~1.5L/ha | Spray and irrigation |

## Caution

- Should be stored cool.
- Keep out of reach of children and pets.