



**NAP+** 

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## Before starting

Napnutriscience's handbook is designed for easy using and simply way to understand. Our product's concept is basic. We concern on how to bring micronutrients to the plant without interruption from negative charge, soil pH, water pH, etc. And also concern how to make micronutrients show off with high performance when up taking. This is why, we start to study in deep details of chelating agents. Different kinds of chelating agents can be solved the different problems in various type of soil.

## How to use

In your hand now, you can start with the micronutrients you are looking for then go to each group of the products to select. Every group we also offer you the same pattern as follow:

- A. Combination of micronutrients
- B. Single micronutrient

And every group, you also can create your own formula to be solved your market requirements.

Prefer to get more details please visit us at [www.napnutriscience.com](http://www.napnutriscience.com) or follow us [www.facebook.com/napnutrisciencefanpage](https://www.facebook.com/napnutrisciencefanpage).

## Group of the products

- A. Excellent** : Micronutrients chelated with EDTA and plant amino
- B. Mammoth** : Micronutrients chelated with hydroxypropanetricarboxylic acid
- C. Calcium** : Calcium boron and calcium boron plus micronutrients
- D. Diz** : Micronutrients chelated with polyphenolic acid
- E. Combi** : Micronutrients chelated with citric acid
- F. Ready Mix Fully Synthetic** : Micronutrients chelated with EDTA
- G. Effervescent** : Micronutrients chelated with citric acid under effervescent technology
- H. Mr. Hybrick** : Buffering fertilizer
- I. Mr.** : Wettable soluble fertilizer plus micronutrients and growth additive
- J. Atomic** : Biostimulant fertilizer
- K. Hercules Utah** : Chelated tablet plant micronutrient fertilizer
- L. Nap-seaweed** : Seaweed extract
- M. Heavy Weight** : Fluid fertilizer, new technology under in order to get high percentage and provides healthy plant.
- N. Zombies Tablet** : Chelated plant micronutrient in tablet form
- O. Hybrid** : pH corrector
- P. Specialty** : Various of micronutrients products which are designed for serve market requirements

## Excellent

### Double Chelates Double Actions

Board spectrum solution for correction of micronutrient deficiencies. Excellent is the combination of L-amino acids together with chelated micronutrients. L-amino acid-based product synthesized from natural plant compound for foliar application. The product contains only free amino acid molecules and ready to absorbed chelated micronutrients. Compared to other amino acid product usually claims total amino acids (high degree of hydrolysis), which less amount of free amino acids.

### Benefits

- ✓ Fast action and excellent compatibility
- ✓ Prevent micronutrient deficiency chlorosis symptoms
- ✓ Micronutrient deficiencies correction
- ✓ Increases photosynthesis
- ✓ Tolerant to stress
- ✓ Improve fruit set



## Excellent

### Excellent Chelant TE (Clear Liquid)

<b>Products</b>	<b>Ingredients</b>
Excellent Zinc	10%Zn, 5%S, 5%amino-L
Excellent Magnesium	4% Mg, 5%S, 5%amino-L
Excellent Ferrous	5% Fe, 3% S, 5%amino-L
Excellent Manganese	5% Mn, 3%S, 5%amino-L
Excellent Calcium Boron	8%CaO,0.2%B,5%amino-L

## Excellent

### Excellent Mix ( Water soluble Powder)

Products	Ingredients
Excellent Combi One	5.18%Mg, 2.85%S, 3.8%Fe, 3.8%Mn, 1.4%Cu, 1.4%Zn,0.47%B, 0.095%Mo, 5%amino-L
Excellent Combi Two	1.9%Mg, 2.66%S, 3.8%Fe, 2.85%Mn,0.47%Cu ,3.8%Zn, 1.42%B, 0.047%Mo, 5% amino-L
Excellent high Ferrous	12.5%Fe, 5%amino-L
Excellent high Magnesium1	3.21%Mg, 5%amino-L
Excellent high Manganese	26.6%Mn, 5%amino -L
Excellent high Zinc	30%Zn, 5% amino-L
Excellent high Zinc Manganese Copper	16.6% Zn, 3.8%Mn, 3.8%Cu, 5%amino-L
Excellent high Calcium Boron	22%Ca, 3.8%B, 5%amino-L

## Excellent

### Excellent Science Fert

Products	Ingredients
Excellent Grower	14%N, 7%Ca, 5%amino-L
Excellent Bloommer	16%P2O5, 5%K2O, 5%amino-L
Excellent High K	48%K2O, 5%amino-L

### Excellent Chelant Calcium Boron (Dark Liquid)

Products	Ingredients
Excellent Chelant CaB	5.55%Ca, 0.2%,B 4.6%amino-L

### Excellent Specialty

Products	Ingredients
Rapidsorb	0.02%B, 0.07%Mn, 0.04%Zn,12%amino -L
Excellent Full House	12.5% Free amino - L, 2.5%Seaweed extracts, 85.0%Humic Acid

## Mammoth

Mammoth is unique innovative micronutrient formulation technology from napnutriscience. This high performance liquid formulation provides rapid foliar absorption of micronutrients and enhances healthy leaves.

### benefits

- ✓ Immediate plant uptake means rapid absorption, rapid response.
- ✓ The Solarshine technology in Mammoth will give the results of waxy-shine-leaves
- ✓ Less quantity required for similar efficacy.
- ✓ Maximizing foliar absorption and preventing localized dry spot.
- ✓ Buffering spray water to ensure favorable environment when mixed with pesticides.
- ✓ Compatible with most pesticides, fertilizers and micronutrients except for high pH products.

## Mammoth

Products	Ingredients
Mammoth Bomo	0.4%B, 1%Mo
Mammoth Magnesium	4.24% Mg, 3%S
Mammoth lay-O	16%Brown Seaweed Extract, 10 %amino acid
Mammoth Ferrous	5%Fe, 2%S
Mammoth Combi	1.21%Mg, 1%Fe, 1%Mn, 3%Zn, 4%S
Mammoth Boron	10%B
Mammoth Zinc	5%Zn, 2%S
Mammoth Manganese	6.8%Mn, 3%S
Mammoth Calcium Boron	9.85%Ca, 1%B
Mammoth Magnesium Boron	4%Mg, 1%B
Mammoth Spa	GA3 600 ppm.,Cytokinin 700 ppm., Auxin 300 ppm.,Folic 500 ppm.
Mammoth Folizyme	GA17%P205, 5%K2O
Mammoth Fong Do	16%Green Seaweed Extract, 1.66%L-Cysteien, 0.33%Folic Acid
Mammoth Zinc Manganese	5% Zn, 5%Mn, 5% S
Mammoth Calcium Magnesium	5.70%Ca, 3.64%Mg,
Mammoth Sugar Express	67%Sugar Compounds, 1.66%L-Cysteine, 0.33%Folic Acid
Mammoth Seoul	Sticker – Spreader
Mammoth High Phos	17%P205, 5%K2O

## Calcium Boron

Calcium Boron products (Dark Liquid) are our most economical liquid calcium boron for soil or foliar applications. DARK PHENOLIC ACID chelating agents promote efficient nutrient absorption, and provide for compatibility with most herbicides, insecticides, fungicides, and soluble fertilizers

Products	Ingredients
CAB'Y	10%Ca, 0.5%B
SETT	8%Ca, 1%B
CAB'Y PLUS	10%Ca, 0.5%B, 0.1%Mo
SETT PLUS	8%Ca,0.5%B

## Calcium Boron

Calcium Boron Products (Clear Liquid) are our best clear solutions of calcium boron for soil or foliar applications. These products promote efficient Calcium Boron for soil or foliar applications.

Products	Ingredients
SUPER SPRAY	5%Ca, 0.5%B
SUPER SPRAY PLUS NITROGEN	5%Ca, 0.5%B, 3%N
SUPER SPRAY PLUS MAGNESIUM	5%Ca, 0.5%B, 3%Mg
SUPER SPRAY PLUS IRON	5%Ca, 0.5%B, 3%Fe
SUPER SPRAY PLUS ZINC	5%Ca, 0.5%B, 3%Zn
EXTRA SPRAY	5%Ca, 0.5%B, 0.1%Mo
EXTRA SPRAY PLUS NITROGEN	5%Ca, 0.5%B, 0.1%Mo, 3%N
EXTRA SPRAY PLUS MAGNESIUM	5%Ca, 0.5%B, 0.1%Mo, 3%Mg
EXTRA SPRAY PLUS IRON	5%Ca, 0.5%B, 0.1%Mo, 3%Fe
EXTRA SPRAY PLUS ZINC	5%Ca, 0.5%B, 0.1%Mo, 3%Zn



## Diz Chelates(Dark Liquid)

Diz Chelates (Dark Liquid products) are our most versatile liquid single chelates for soil and foliar applications. DARK PHENOLIC ACID chelating agents buffer spray tank mixes, promote efficient nutrient absorption, and provide for compatibility with most herbicides, insecticides, fungicides.

Products	Ingredients
Diz TreeVine & Vegetable Mix	3%Zn, 1%Mg, 1%Mn, 1%Fe, 4%S
Diz Magnesium	4%Mg, 4%S
Diz Iron	5%Fe, 4%S
Diz Zinc	10%Zn, 5%S
Diz Manganese	5%Mn, 4%S
Diz Zinc Manganese	5%Zn, 5%Mn, 5%S
Diz Corn Mix	5%Zn, 1%Cu, 1%Mn, 0.1%Fe, 0.1%B, 0.01%Mo, 4%S
Diz Legume Mix	1.5%Mg, 2%Mn, 2%Zn, 0.1%Cu, 0.1%Mo, 0.1%B, 4%S
Diz Rice Mix	5%Zn, 0.25%Cu, 0.25%Fe, 0.95%Mn, 0.6%Mg, 4%S
Diz Cotton Mix	1%Fe, 3%Mn, 2%Zn, 4%S
Diz Tobacco Mix	2%Mg, 3%S, 0.5%Fe, 1%Mn, 0.2%Cu, 1%Zn, 0.05%B, 0.1%Mo
Diz Rambutan & Mango Mix	1%Mg, 4%S, 1%Fe, 0.4%Mn, 0.1%Cu, 3.%Zn, 0.1%B, 0.02%Mo
Diz Bomo	5%B, 1%Mo

## Combi Chelates (Clear Liquid)

COMBI Chelates (Clear Liquid) are our best liquid double chelates for soil foliar applications. Best quality chelating agents buffer spray tank mixes, promote efficient nutrient absorption, and provide for compatibility with most herbicides, insecticides, fungicides, and high analysis liquid fertilizers like 20 - 20 - 20 in drip irrigation system.

Products	Ingredients
Combi Tree Vine & Vegetable Mix	3%Zn, 1%Mg, 1%Mn, 1%Fe, 4%S
Combi Magnesium	4%Mg, 5%S
Combi Iron	5%Fe, 3%S
Combi Zinc	10%Zn, 5%S
Combi Manganese	5%Mn, 3%S
Combi Zinc Manganese	5%Zn, 5%Mn, 5%S
Combi Corn Mix	5%Zn, 1%Cu, 1%Mn, 0.1%Fe, 0.1%B, 0.01Mo, 4%S
Combi Legume Mix	1.5%Mg, 4%S, 2%Mn, 0.1%Cu, 2%Zn, 0.1%B, 0.1%Mo
Combi Rice Mix	0.6%Mg, 4%S, 0.25%Fe, 0.95%Mn, 0.25%Cu, 5%Zn
Combi Cotton Mix	1%Fe, 2%Zn, 3%Mn, 4%S
Combi Tobacco Mix	2%Mg, 4%S, 0.5%Fe, 1%Mn, 1%Zn, 0.1% Mo

## Ready Mix Fully Synthetic

Ready Mix Fully Synthetic is designed for using high available of EDTA-plant micronutrients. This formulation can be applied for all applications and compatible to most pesticides and fertilizers.

Products	Ingredients
Ready mix combi one fully synthetic	5.45% Mg, 3%S, 4%Fe, 4%Mn, 1.5%Cu, 1.5%Zn,0.5%B, 0.1%Mo
Ready mix combi two fully synthetic	2%Mg, 2.8% S, 4% Fe , 3% Mn, 0.5%Cu, 4%Zn,1.5% B, 0.05%Mo
Ready mix Magnesium oxide 23 fully synthetic	13.94% Mg
Ready mix Zinc 32fully synthetic	32%Zn
Ready mix Ferrous 13.2 fully synthetic	13.2%Fe
Ready mix Manganese28 fully synthetic	28%Mn
Ready mix Copper 28 fully synthetic	28%Cu
Ready mix Calcium Boron fully synthetic	23.57%Ca, 4%B
Ready mix Zinc Manganese Copper fully synthetic	17.5%Zn, 4%Cu, 4%Mn

## Effervescent Chelates (White Powder)

This formulation is produced by dehydrate anhydrous technology in order to make effervescent high concentrate powder that dissolve in water quickly during mixing. This formulation contains buffering agent which enhances efficient nutrient absorption and stability of the pesticides in the tank mix. This formulation is compatible with most pesticides and fertilizers.

Products	Ingredients
CAB PREMIUM 124	12% Ca, 4%B
PADDY FEED	4.1% Mg, 3.94%Ca, 1.18%Mn, 1.35%Zn, 1.05%B
CHERILON COMBI	5% Mg, 1.75% Zn, 1.3% Mn, 1% B, 1.86% Ca, 0.1% Mo

## MR. Hybrick

Buffering fertilizer, this product is designed for adjust pH of tank mixed while provides plant nutrients.

### Products

### Ingredients

Mr. Hybrick 191919

19-19-19 (N-P-K)

Mr. Hybrick Fe

6.0% Fe

## MR. Group

MR. Products are high grade of NPK plus micronutrients improving plant nutrient absorption. This product can be applied for all crops and all stage of plant growth.

### MR. K

Products	Ingredients
MR. K -ONE	7-13-34+5%Zn
MR. K-Plus Amino	7-13-14+17%Amino

### MR. N

Products	Ingredients
MR. N-ONE	24-0-0+13.88%Ca
MR. N-TWO	24-0-0+13.88%Ca+0.1%atomic
MR. N-THREE	23-0-0+12.86%Ca+5%amino

### MR. ENSURE

Products	Ingredients
MR. ENSURE ONE	0-33-45+1.5%Zn
MR. ENSURE TWO	0-33-45+1.5%Fe
MR. ENSURE THREE	0-38-51+0.2%Atomic
MR. ENSURE FOUR	0-36-49+5%Amino
MR. ENSURE FIVE	0-34-46+2%B

## Atomic

Atomic is one of biostimulate fertilizer provided plant growth function systems to get more flowers, more high quality yield, enhances healthy plant. Atomic is the most friendly for all crops and most compatible to pesticides and fertilizers.

### Products

### Ingredients

ME (Metabolic energizer)	2% para-aminonitriphenol (Atomic)
napGibb X	10%GA3, 6.5%Fe, 25%Atomic
A 324	10%Atomic, 0.4%GA3, 11%N, 40%K2O
B 326	10%Atomic, 1%IBA, 11%Fe
Revitalizer Gold Powder	0.8%GA3, 10%Atomic, 2%IBA, 1%Fe, 10%N, 35%K2O
AminoTonik BM	80%amino acid, 1.7%B, 1%Mo, 4%Atomic
Atomic Fe	10%Fe, 2%Atomic
Atomic Zn	12%Zn, 2%Atomic
Atomic Sugar Express	80%polysaccharide, 2%Atomic
Amino tonic powder	80%L-amino, 2%Atomic
Amino tonic liquid	8%L-amino, 2%Atomic
Sea tonic powder	80%green seaweed, 2%Atomic
Atomic B	1%L-amino, 0.2%B, 1.8%Atomic
Atomic Mo	1%L-amino, 0.2%Mo, 1.8%Atomic
Amarith Excel	0.1% GA3, 0.18% Atomic, 0.1% IBA, 20% L-amino, 12%N, 35%K2O



## Hercules Utah

Hercules Utah is a unique plant micronutrient fertilizer that provides high efficacy of important plant micronutrients and also provides plant root growth additive increasing root caps, getting more nutrient uptakes.

Products	Ingredients
Hercules Utah 1	2.97%Mg, 7%Ca, 5%S, 1%Fe, 0.75%Mn, 0.15%Cu, 1.5%Zn, 0.5%B
Hercules Utah 10	6.06%Mg, 12%S, 1%Fe, 3%Mn, 3%Zn, 0.25%B
Hercules Utah Rice Mix	3%Zn, 1%Mg, 1%Fe, 1%Mn, 1%Cu, 0.5%B, 10%Ca, 5%S
Hercules Utah Veggie	7%Ca, 1.45%Mg, 0.5%Zn, 0.5%Mn, 0.1%Cu, 0.1%Fe, 0.5%B, 5%S
Hercules Utah 6	4%S, 8%Cu, 4 %Zn
Hercules Utah 7	4%S, 6%Cu, 3%Zn, 1.86%B
Hercules Utah Plus	7%Ca, 5%S, 2%Fe, 1%Mn, 1%Cu, 5%Zn, 1%B
Hercules Utah Fe 15	15%Fe
Hercules Utah Iron 15	3.57%Ca, 15%Fe
Hercules Utah Veggie Mo	3.03%Mg, 10%Ca, 5%S, 0.1%Fe, 0.5%Mn, 0.1%Cu, 0.5%Zn, 0.5%B, 0.01%Mo

## Nap - Seaweed

Concentrated natural seaweed extraction plus growth additives for plant vigor, increase immunity, stimulate root & shoot growth, resistance to drought.

Products	Ingredients
Nap Seaweed	24% Seaweed extract plus Growth additives
Semi Synthetic Nap Seaweed	8%seaweed, 8%humic acid, stimulate

## Oligo Seaweed

Oligo Seaweed is a green oligo-seaweed liquid formulation combined with plant amino (L- amino) that is designed for foliar application under Napnutriscience technology. This product does not deal with any heat in the production at all which means all kinds of plant benefit still remain 100% in this product.

NOTE: D-amino acid is not recognized by plant enzymes and does not participate in plant protein biosynthetic process

Products	Ingredients
Jammar BM 86	24%Seaweed Extract, 8%L-amino acid

## Heavy Weight

Nutriceutical fluid fertilizer, derives from phosphorous acid interrupt pathogenic of micro-organism. This molecule stimulates plant growth and helps plant to recover from disease, drought, stress, and fruit setting.

Products	Ingredients
NAP Heavy Weight	0-51-12
NAP Heavy Weight Start up	15-0-0,12%CaO
NAP Heavy Weight Calcium	15-0-0,12%CaO
NAP Heavy Weight	0-40-10
NAP Heavy Weight Fosforo	0-30-20
NAP Heavy Weight Fosforo-L	0-40-10+3%Amino
NAP Heavy Weight Fosforo-A	0-40-10+0.2%Atomic

## Tablet

The tablet plant nutrients.

Products	Ingredients
Amarith Tablet	20 % Atomic, 14% K <sub>2</sub> O, 4 % MgO
Zombies Tablet	4% Atomic, 14% K <sub>2</sub> O

\* 1 tablet (250 mg.) for 20 liters of water

## Hybrid SB

### Sticker Spreader and Buffer Solution

Buffering tank mix to maximize pesticides efficacy while providing sticker and spreader abilities in order to wet though the leaves.

#### Benefits

- ✓ Adjust pH of spray water to reduce pesticide hydrolysis
- ✓ Provide abilities of sticker and spreader
- ✓ Turn spray water into pink color, easy to indicate
- ✓ Increase solubility of soluble fertilizers and micronutrients
- ✓ Maximize pesticide efficacy, better stability
- ✓ Enhance leaves absorption of fertilizers and micronutrients
- ✓ Improve water penetration of the old over liming soil
- ✓ Enhance roots absorption of fertilizers and micronutrients

Products	Ingredients
Hybrid SB	Buffer Sticker and Spreader
Hybrid Cu	Buffering agent with 0.25% Cu
Hybrid Zn	Buffering agent with 2% Zn
Hybrid Mg	Buffering agent with 1% Mg

## Specialty Products

### Products

### Ingredients

#### Harvest Plus High Phos GA 3-17-5

Harvest Plus High Phos GA is a suspension foliar nutrient fertilizer designed to prevent nutrient deficiencies and to add growth factors to improve yield and quality.

3%N, 17%P<sub>2</sub>O<sub>5</sub>, 5% K<sub>2</sub>O, 0.96%Mg, 0.96%Ca, 1.5%S, 1.44%Fe, 0.48%Mn, 0.96%Zn, 0.19%B, 0.048%Mo

#### Harvest Plus High Phos GA 0-17-5

Harvest Plus High Phos GA is a suspension foliar nutrient fertilizer designed to prevent nutrient deficiencies and to add growth factors to improve yield and quality.

17%P<sub>2</sub>O<sub>5</sub>, 5% K<sub>2</sub>O, 0.96%Mg, 0.96Ca, 1.5%S, 1.44%Fe, 0.48%Mn, 0.96%Zn, 0.19%B, 0.048%Mo

#### Harvest Plus High K GA 0-6-12

Harvest Plus High K GA is a suspension foliar nutrient Fertilizer designed to feeding plant quickly and efficiency during fruit set in order to increase yield and quality.

6%P<sub>2</sub>O<sub>5</sub>, 12%K<sub>2</sub>O

#### Vigor Plus

Vigor Plus is a liquid nitrogen with calcium boron for all applications. This product will enhance root system in order to get more healthy leave preparing for the next season.

8.5%N, 8.5%Ca, 0.15%B

#### Vigor Plus Humic

8.5%N, 8.5%Ca, 0.15%B, 3%Humic acid

## Specialty Products

### Products

### Ingredients

#### napGibb

10%GA3, 6%Ca, 2%B

is a unique innovative formulation of micronutrients and plant growth additive from Napnutriscience. This formulation, produced by effervescent chelating technology, gives effervescent concentrated powder that dissolves rapidly when mixed with water. This formulation is compatible to most pesticides and fertilizers.

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#### Voo Doo

Humic Acid 60%, Seaweed 2.5%,  
L-Amino Acid 12%

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#### UMP

12-0-13

UMP is a friendly amino nitrogen with high purify designed using for all of crops to increase fruit sizing without bad effect to fruit quality.



## Specialty Products

### Products

### Ingredients

#### Dexan

25% CaO ( 17% Ca)

Nutraceutical plant nutrient, acts as bacteriostatic.  
This novelty molecule is very much effective  
to cure bacterial plant diseases.

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#### California

Ethoxylated Chitinase Fatty Acid Oil 100%

is a unique sticker and spreader product which  
is designed for improving the efficacy of most  
pesticides. California can also be applied with  
micronutrient products. California can be applied  
in eatable crops.

#### Benefit

- ✓ Enhancing the best performance of the Emulsifier Concentrate(EC)'s products
- ✓ Reducing pesticides volatilization.



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