

Baran Business Solutions Development Company

Baran Company has over a decade of experience and innovation in Iran's agriculture sector.

- Supply of fertilizer products under license from QSCert, Germany.
- Technical and commercial partner of Agrochem Prom, Russia.
- Member of the Agricultural Engineering System Organization.
- Contractor with greenhouse construction rating.
- Official producer of improved vegetable seeds.
- Recognized as the top agricultural cooperative and documentary network by the Islamic Republic of Iran Broadcasting.
- Consultant to the Astan Quds Razavi and the Organization of Endowments in agriculture.

The cover image is related to NASA's satellite monitoring photography of circular farms in Kansas, USA. This imagery was nominated for the best photo in 2006 and refers to smart agriculture with center pivot irrigation and control conditions from space.

Baran Business Solutions Development

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Organic Sulfur Fertilizer GrowStar



Total Nitrogen	Water-soluble Potassium Oxide (K ₂ O)	Soluble Sulfur	Thiosulfate (S ₂ O ₃)	Amino Acid	Organic Carbon	Organic Matter
10%	3%	2%	2.5%	2%	20%	40%

Ingredients: Plant-based amino acids, thio ammonium, potassium hydroxide, plant-based organic matter.

Advantages of using Organic Sulfur Fertilizer:

- Reduces soil salinity and PH.
- Increases absorbable phosphorus in the soil.
- Increases resistance to diseases, especially fungal diseases.
- Enhances flowering, fruiting, and the quality and quantity of products.
- Increases oil content in oilseed plants.
- Enhances soil microorganism activity.
- Increases chlorophyll content in leaves and protein in tissues.

Usage Instructions:

Application Rate (L/ha)	Timing of Use	Type of Cultivation
2-4	Beginning of vegetative growth, then once a month	Agricultural
4-5	Beginning of vegetative growth, before and after flowering	Orchard
2-3	Beginning of vegetative growth, then every 10 days as needed	Vegetables
2-3	Beginning of vegetative growth, during harvesting every 14 days	Greens
2-3	Every 14 to 30 days depending on the plant type	Ornamental

- If irrigated, at least 10 liters per hectare should be used.
- Usable at all growth stages.
- For optimal effectiveness, apply 2 kg of urea with each liter of fertilizer during irrigation.

Precautions and Warnings:

- Shake well before use.
- Carefully read the usage instructions before use and consult an expert.
- If necessary, repeat 2-3 times during the growing period.
- Store away from light and in a dry, cool place at a temperature of 10 to 30 degrees.

Liquid Calcium Nitrogen Sulfur (Calci Sul) GrowStar



Organic Matter	Organic Carbon	Sulfur	Amino Acid	Calcium (Ca)	Total Nitrogen
12.5%	6.5%	1%	2%	4.5%	13.5%

Ingredients: Thioammonium, calcium carbonate, plant-based organic matter.

Advantages of using Calcisoul Fertilizer:

- Improves physical and chemical properties of the soil.
- Aids in increasing nutrient absorption by reducing soil pH and salinity.
- Improves the activity of beneficial soil microorganisms.
- Increases resistance to pathogenic factors, especially fungal diseases.
- Plays a significantly effective role in enhancing the quality and quantity of products.

Usage Instructions:

Application Rate (L/ha)	Timing of Use	Type of Cultivation
2-3	Beginning of vegetative growth, then once a month	Agricultural
4-5	Beginning of vegetative growth, before and after flowering	Orchard
2-3	Beginning of vegetative growth, then every 10 days as needed	Vegetables
2-3	Beginning of vegetative growth, during harvesting every 14 days	Greens
2-3	Every 14 to 30 days depending on the plant type	Ornamental

- If irrigated, at least 10 liters per hectare should be used.

Precautions and Warnings:

- Shake well before use.
- Carefully read the usage instructions before use.
- If necessary, repeat 2-3 times during the growing period.
- Store away from light and in a dry, cool place at a temperature of 10 to 30 degrees.
- Consult an expert before mixing with other fertilizers.

Liquid Organic Matter (Organo Base) GrowStar



Guaranteed Analysis:	Amino Acid	Fulvic Acid	Humic Acid	Nitrogen	Phosphorus Pentoxide (P2O5)	Potassium Oxide (K2O)	Magnesium	Organic Carbon	Organic Matter
	8%	1.5%	0.5%	3%	2.5%	2%	1%	20%	35%
Copper	Zinc	Iron	Calcium	Composition					
90	300	800	5000	Concentration ppm					

Ingredients: Plant-based amino acids, plant-based fulvic acid, ammonium sulfate, potassium sulfate, phosphoric acid.

Advantages of using Liquid Organic Fertilizer:

- Increases vegetative and reproductive growth of plants.
- Improves physical and chemical properties of soil.
- Regulates acidity (pH) and reduces soil salinity.
- Enhances nutrient absorption.
- Improves microorganism activity.
- Increases resistance to environmental stresses (cold stress, heat stress, drought stress, etc.).

Usage Instructions:

Type of Cultivation	Timing of Use	Application Rate in Irrigation (L/ha)	Application Rate in Foliar Spray (L/ha)
All types of cultivation	Beginning of vegetative growth, then throughout the growth period	10-35	4

- Usable at all growth stages.

Precautions and Warnings:

- Can be combined with various fertilizers.
- Shake well before use.
- Carefully read the usage instructions before use.
- If necessary, repeat 2-5 times during the growing period.
- Store away from light and in a dry, cool place.

Amino Ful GrowStar



Guaranteed Analysis:	Amino Acid	Fulvic Acid	Nitrogen	Phosphorus Pentoxide (P2O5)	Potassium Oxide (K2O)	Organic Carbon	Organic Matter
	7.5%	20%	5%	4%	4%	16%	32%
Copper	Zinc	Iron	Calcium	Magnesium			
90 ppm	300 ppm	800 ppm	5000 ppm	7000 ppm			

Ingredients: Plant-based amino acids, plant-based fulvic acid, ammonium sulfate, potassium phosphate, potassium hydroxide.

Advantages of using Liquid Amino and Fulvic Acid Fertilizer (Amino Fol):

- Increases plant resistance to environmental stresses.
- Enhances the effects of pesticides and reduces their negative impact on plants.
- Improves pollination and increases yield.
- Increases quantity and quality of products.
- Chelating properties of elements.
- Increases effectiveness and reduces side effects of pesticides.
- Increases resistance to environmental stresses (cold stress, heat stress, drought stress, etc.).

Usage Instructions:

Type of Cultivation	Timing of Use	Application Rate in Foliar Spray (L/ha)
Agricultural	Beginning of vegetative growth, then once a month	2-4
Orchard	Beginning of vegetative growth, before and after flowering	4-5
Vegetables	Beginning of vegetative growth, then every 10 days as needed	2-3
Greens	Beginning of vegetative growth, during harvesting every 14 days	2-3
Ornamental	Every 14 to 30 days depending on the plant type	2-3

- If irrigated, use 20 liters per hectare for all types of cultivation.

Precautions and Warnings:

- Can be combined with various fertilizers and pesticides, but consult an expert before use.
- It is better not to use it simultaneously with fungicides, but it can be mixed with copper-containing compounds.
- Shake well before use.
- Carefully read the usage instructions before use.
- If necessary, repeat 2-3 times during the growing period.
- Store away from light and in a dry, cool place.

Liquid Phosphorus GrowStar



Guaranteed Analysis:	Total Phosphorus	Nitrogen	Potassium Oxide (K ₂ O)	Iron	Zinc	Organic Matter
	50	5	5	1	1	5

Ingredients: Plant-based organic matter, orthophosphoric acid, urea, iron sulfate, zinc sulfate, potassium sulfate, potassium hydroxide.

Advantages of using Phosfomax Fertilizer:

- Effective in cell division and improving root and stem growth.
- Development and stimulation of root growth.
- Increases protein synthesis.
- Enhances flowering and seed production.
- Improves product quality.
- Increases resistance to plant diseases.

Usage Instructions:

Type of Cultivation	Timing of Use	Application Rate in Foliar Spray (L/ha)
Agricultural	Beginning of vegetative growth and during growth as needed	2-3
Orchard	Beginning of vegetative growth and during growth as needed	4-5
Vegetables	Beginning of vegetative growth and during growth as needed	2-3
Greens	Beginning of vegetative growth and during growth as needed	2-3
Ornamental	Every 14 to 20 days depending on the plant type	2-3

- If irrigated, use 10-20 liters per hectare for all types of cultivation.

Precautions and Warnings:

- Shake well before use.
- Carefully read the usage instructions before use.
- If necessary, repeat 2-3 times during the growing period.
- Store away from light and in a dry, cool place.
- Can be combined with various fertilizers and pesticides, but consult an expert before use.
- It is better not to use it simultaneously with fungicides, but it can be mixed with copper-containing compounds.

Liquid Potassium GrowStar



Guaranteed Analysis:	Potassium Oxide (K ₂ O)	Nitrogen	Amino Acid	Fulvic Acid	Organic Carbon	Organic Matter
	13.5%	7%	3.5%	2%	6.5%	12.5%

Ingredients: Plant-based organic matter, amino acids, urea, ammonium sulfate, potassium sulfate, potassium hydroxide.

Advantages of using Liquid Potassium Fertilizer (Pota Max):

- Increases flowering and improves fruit color.
- Prevents stem bending and increases yield.
- Enhances starch and protein content in plants.
- Controls ionic balance in plants.
- Increases photosynthesis and improves performance.
- Increases resistance to environmental stresses (cold stress, heat stress, drought stress, etc.).

Usage Instructions:

Type of Cultivation	Timing of Use	Application Rate in Foliar Spray (L/ha)
Agricultural	Beginning of reproductive growth and during growth as needed	2-3
Orchard	Beginning of reproductive growth and during growth as needed	4-5
Vegetables	Beginning of reproductive growth and during growth as needed	2-3
Greens	Beginning of reproductive growth and during growth as needed	2-3
Ornamental	Every 14 to 20 days depending on the plant type	2-3

- If irrigated, use 10-20 liters per hectare for all types of cultivation.

Precautions and Warnings:

- Shake well before use.
- Carefully read the usage instructions before use.
- Store away from light and in a dry, cool place.
- Can be combined with various fertilizers and pesticides, but consult an expert before use.
- It is better not to use it simultaneously with fungicides, but it can be mixed with copper-containing compounds.

Complete Fertilizer (Organo Magic) GrowStar



Guaranteed Analysis:	Nitrogen	Phosphorus	Potassium	Iron	Sulfur	Amino Acid	Zinc	Manganese	Copper	Bromine	Organic Carbon	Organic Matter	Calcium	Magnesium
	15%	1%	3.5%	3%	5%	5%	4%	1%	0.5%	0.5%	15%	25%	2500 ppm	2500 ppm

Ingredients: Plant-based organic matter, iron sulfate, urea, zinc sulfate, manganese sulfate, copper sulfate, boric acid, potassium phosphate, ammonium sulfate.

Advantages of using Complete Liquid Organo Magic Fertilizer:

- Provides all essential nutrients required for plants.
- Improves absorption and transfer of nitrogen, phosphorus, and potassium in plants.
- Increases quality and growth of seeds and fruits.
- Synthesizes chlorophyll and enhances photosynthesis.
- Boosts protein synthesis and enzyme activity.
- Plays an effective role in plant growth and health.
- Improves metabolic processes in plants.

Usage Instructions:

Type of Cultivation	Timing of Use	Application Rate in Foliar Spray (L/ha)
Agricultural	At the beginning of bud opening and during growth as needed	2-3
Orchard	Beginning of vegetative growth and during growth as needed	3-4
Vegetables & Greens	Beginning of vegetative growth and during growth as needed	2-3
Ornamental	Every 14 to 20 days depending on the plant type	2-3

Precautions:

- Do not use during flowering in orchards.
- Shake well before use.
- Carefully read the usage instructions before use.
- Store away from light and in a dry, cool place.
- Can be combined with various fertilizers and pesticides, but consult an expert before use.

Liquid Copper GrowStar



Copper Nitrogen Organic Carbon Organic Matter

3.5%	12.5%	3%	5%
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Ingredients: Copper acetate, ammonium sulfate, phosphoric acid, plant-based organic matter.

Advantages of using Liquid Copper Fertilizer (Fungi Ban):

- Increases plant resistance to oxidative stress.
- Enhances protein production and improves enzyme processes.
- Increases resistance to pathogenic factors, especially fungal diseases.
- Increases photosynthesis efficiency.

Usage Instructions:

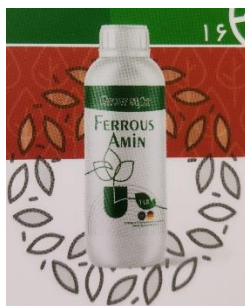
Type of Cultivation	Timing of Use	Application Rate in Foliar Spray (L/ha)
Agricultural	Beginning of reproductive growth and during growth as needed	1-2
Orchard	Beginning of reproductive growth and during growth as needed	3-4
Vegetables	Beginning of reproductive growth and during growth as needed	1-2
Greens	Beginning of reproductive growth and during growth as needed	1-2
Ornamental	Every 14 to 20 days depending on the plant type	1-2

In irrigation systems, use 5-10 liters per hectare.

Precautions and Warnings:

- It is better not to mix with any pesticides or fertilizers.
- Shake well before use.
- Avoid foliar application during flowering.
- Carefully read the usage instructions before use.
- If necessary, repeat 2-3 times during the growing period.

Liquid Iron (Ferrous Amin) GrowStar



Guaranteed Analysis: Iron Nitrogen Sulfur Amino Acid Organic Carbon Organic Matter

5%	13.5%	20%	4%	8%	15%
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Ingredients: Plant-based organic matter, ammonium sulfate, iron sulfate, plant-based amino acids.

Advantages of using Liquid Iron Fertilizer (Ferrous Amin):

- Increases chlorophyll synthesis and enhances photosynthesis.
- Improves the efficiency of other elements.
- Enhances growth and increases yield.
- Rapid absorption and transfer in plants.
- Improves product quality.
- Increases germination.
- Improves soil structure and helps better absorption of soil elements.

Usage Instructions:

Type of Cultivation	Timing of Use	Application Rate in Foliar Spray (L/ha)	Application Rate in Irrigation (L/ha)
Agricultural	Beginning of reproductive growth and during growth as needed	3-2	4-6
Orchard	Beginning of reproductive growth and during growth as needed	4-3	6-8
Vegetables	Beginning of reproductive growth and during growth as needed	3-2	4-6
Greens	Beginning of reproductive growth and during growth as needed	3-2	4-6
Ornamental	Every 14 to 20 days depending on the plant type	3-2	4-6

Precautions:

- Shake well before use.
- Carefully read the usage instructions before use.
- Conduct mixing tests before mixing with other pesticides and fertilizers.
- Store away from light and in a dry, cool place.

NPK 20-20-20 GrowStar						
Guaranteed Analysis:	Total Nitrogen (N)	Usable Phosphorus (P2O5)	Water-soluble Potassium (K2O)	Chelated Micronutrients	Seaweed (Sargassum nodosum)	Amino Acid
	20%	20%	20%	1%	0.5%	0.5%

Ingredients: Monopotassium phosphate, monoammonium phosphate, potassium nitrate, urea, potassium sulfate, chelated micronutrients, amino acids, seaweed.

Advantages of use:

- Increases root growth and development.
- Enhances leaf and stem growth.
- Increases germination and flowering.
- Boosts product yield.
- Increases resistance to environmental stresses.
- Strengthens photosynthesis efficiency.

Usage Instructions:

Type of Product	Type of Use	Timing of Use	Application Rate (kg/ha)
Agricultural	Drip Irrigation	At the beginning of vegetative growth and then throughout the growth period as needed	8-15
	Flood Irrigation		10-20
	Foliar Spray		3-4
Orchard	Drip Irrigation	At the beginning of vegetative growth and then throughout the growth period as needed	8-15
	Flood Irrigation		10-20
	Foliar Spray		2-5
Greenhouse	Drip Irrigation	At the beginning of vegetative growth and then throughout the growth period as needed	5-9
	Flood Irrigation		7-12
	Foliar Spray		2-5

Precautions and Warnings:

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| <ul style="list-style-type: none">• Avoid mixing this fertilizer with calcium fertilizers.• Avoid mixing this fertilizer with Humic acid in the same container.• It is recommended to test this fertilizer alone or in combination with other fertilizers or pesticides at a limited scale first.• Recommended amounts may vary based on the type of product, age of the plant, and severity of deficiency.• Store away from direct sunlight and moisture.• Carefully read the usage instructions before use. |
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NPK (12-12-36) GrowStar						
Guaranteed Analysis:	Total Nitrogen (N)	Usable Phosphorus (P2O5)	Water-soluble Potassium (K2O)	Chelated Micronutrients	Seaweed (Sargassum nodosum)	Amino Acid
	12%	12%	36%	1%	0.5%	0.5%
Ingredients: Monopotassium phosphate, monoammonium phosphate, potassium nitrate, urea, potassium sulfate, chelated micronutrients, amino acids, seaweed.						
Advantages of use:						

- Increases leaf and root growth and development.
- Enhances germination and flowering.
- Improves fruit color.
- Boosts product yield.
- Increases resistance to environmental stresses.

Usage Instructions:			
Type of Product	Type of Use	Timing of Use	Application Rate (kg/ha)
Agricultural	Drip Irrigation	At the beginning of vegetative growth and then throughout the growth period as needed	15-10
	Flood Irrigation		20-15
	Foliar Spray		6-4
Orchard	Drip Irrigation	At the beginning of vegetative growth and then throughout the growth period as needed	15-10
	Flood Irrigation		15-10
	Foliar Spray		4-6
Greenhouse	Drip Irrigation	At the beginning of vegetative growth and then throughout the growth period as needed	5-9
	Flood Irrigation		7-12
	Foliar Spray		2-5
Precautions and Warnings:			

- Do not use as a foliar spray during flowering.
- Avoid mixing this fertilizer with calcium fertilizers.
- Avoid mixing this fertilizer with Humic acid in the same container.
- It is recommended to test this fertilizer alone or in combination with other fertilizers or pesticides at a limited scale first.
- Recommended amounts may vary based on the type of product, age of the plant, and severity of deficiency.
- Carefully read the usage instructions before use.

NPK (0-0-53 + 18 S) GrowStar Potassium Sulfate (SOP)			
Guaranteed Analysis: Water-soluble Potassium (K₂O) Soluble Sulfur (S)			
	53	17.5	
Ingredients: Potassium sulfate.			
Advantages of use:			

- This product is chlorine-free.
- Increases fruit color and taste quality.
- Increases resistance to environmental stresses.
- Enhances product storability.
- Reduces soil acidity due to the presence of sulfur.
- Increases resistance to plant diseases.
- Effective in protein synthesis and enzymatic reactions.

Usage Instructions:			
Type of Product	Type of Use	Timing of Use	Application Rate (kg/ha)
Agricultural	Drip Irrigation	At the beginning of reproductive growth and then throughout the growth period as needed	8-15
	Flood Irrigation		15-20
	Foliar Spray		3-6
Orchard	Drip Irrigation	At the beginning of reproductive growth and then throughout the growth period as needed	15-20
	Flood Irrigation		15-25
	Foliar Spray		3-6
Greenhouse	Drip Irrigation	At the beginning of reproductive growth and then throughout the growth period as needed	8-15
	Flood Irrigation		10-15
	Foliar Spray		2-5
Precautions and Warnings:			

- Avoid mixing this fertilizer with calcium fertilizers.
- Avoid mixing this fertilizer with Humic acid in the same container.
- It is recommended to test this fertilizer alone or in combination with other fertilizers or pesticides at a limited scale first.
- Recommended amounts may vary based on the type of product, age of the plant, and severity of deficiency.
- Store away from direct sunlight and moisture.
- Carefully read the usage instructions before use.

NPK (10-52-10) GrowStar						
Guaranteed Analysis:	Total Nitrogen (N)	Usable Phosphorus (P2O5)	Water-soluble Potassium (K2O)	Chelated Micronutrients	Seaweed (Sargassum nodosum)	Amino Acid
	10%	52%	10%	1%	0.5%	0.5%
Ingredients: Monopotassium phosphate, monoammonium phosphate, potassium nitrate, urea, potassium sulfate, chelated micronutrients, amino acids, seaweed.						
Advantages of use:						

- Improves overall plant growth.
- Enhances root growth and development.
- Improves nutrient absorption.
- Increases product yield.

Usage Instructions:			
Type of Product	Type of Use	Timing of Use	Application Rate (kg/ha)
Agricultural	Drip Irrigation	At the beginning of vegetative growth and then throughout the growth period as needed	15-10
	Flood Irrigation		20-15
	Foliar Spray		6-4
Orchard	Drip Irrigation	At the beginning of vegetative growth and then throughout the growth period as needed	10-15
	Flood Irrigation		15-25
	Foliar Spray		4-6
Greenhouse	Drip Irrigation	At the beginning of vegetative growth and then throughout the growth period as needed	5-9
	Flood Irrigation		7-12
	Foliar Spray		2-5
Precautions and Warnings:			

- Do not use as a foliar spray during flowering.
- Avoid mixing this fertilizer with calcium fertilizers.
- Avoid mixing this fertilizer with Humic acid in the same container.
- It is recommended to test this fertilizer alone or in combination with other fertilizers or pesticides at a limited scale first.
- Recommended amounts may vary based on the type of product, age of the plant, and severity of deficiency.
- Store away from direct sunlight and moisture.
- Carefully read the usage instructions before use.

NPK 15-5-30 GrowStar						
Guaranteed Analysis:	Total Nitrogen (N)	Usable Phosphorus (P2O5)	Water-soluble Potassium (K2O)	Chelated Micronutrients	Seaweed (Sargassum nodosum)	Amino Acid
	15%	5%	30%	1%	0.5%	0.5%
Ingredients: Monopotassium phosphate, monoammonium phosphate, potassium nitrate, urea, potassium sulfate, chelated micronutrients, amino acids, seaweed.						
Advantages of use:						

- Increases vegetative and reproductive growth.
- Enhances root development and flower and seed production.
- Strengthens stem resistance by fortifying cell walls.
- Increases resistance to environmental stresses.
- Improves fruit quality.
- Enhances photosynthesis efficiency.

Usage Instructions:			
Type of Product	Type of Use	Timing of Use	Application Rate (kg/ha)
Agricultural	Drip Irrigation	At the beginning of the growing season and then throughout the growth period as needed	7-12
	Flood Irrigation		8-15
	Foliar Spray		3-4
Orchard	Drip Irrigation	At the beginning of the growing season and then throughout the growth period as needed	10-15
	Flood Irrigation		15-25
	Foliar Spray		3-5
Greenhouse	Drip Irrigation	At the beginning of the growing season and then throughout the growth period as needed	5-9
	Flood Irrigation		7-12
	Foliar Spray		2-5
Precautions and Warnings:			

- Avoid mixing this fertilizer with calcium fertilizers.
- Avoid mixing this fertilizer with Humic acid in the same container.
- It is recommended to test this fertilizer alone or in combination with other fertilizers or pesticides at a limited scale first.
- Recommended amounts may vary based on the type of product, age of the plant, and severity of deficiency.
- Store away from direct sunlight and moisture.
- Carefully read the usage instructions before use.

NPK 30-15-15 GrowStar						
Guaranteed Analysis:	Total Nitrogen (N)	Usable Phosphorus (P2O5)	Water-soluble Potassium (K2O)	Chelated Micronutrients	Seaweed (Sargassum nodosum)	Amino Acid
	30%	15%	15%	1%	0.5%	0.5%
Ingredients: Monopotassium phosphate, monoammonium phosphate, potassium nitrate, urea, potassium sulfate, chelated micronutrients, amino acids, seaweed.						
Advantages of use:						

- Increases vegetative growth, suitable for the beginning of the growth period.
- Strengthens stem resistance by fortifying cell walls.
- Improves fruit quality.
- Enhances photosynthesis efficiency.

Usage Instructions:			
Type of Product	Type of Use	Timing of Use	Application Rate (kg/ha)
Agricultural	Drip Irrigation	At the beginning of the growing season and then throughout the growth period as needed	7-12
	Flood Irrigation		8-15
	Foliar Spray		3-4
Orchard	Drip Irrigation	At the beginning of the growing season and then throughout the growth period as needed	8-15
	Flood Irrigation		10-20
	Foliar Spray		2-5
Greenhouse	Drip Irrigation	At the beginning of the growing season and then throughout the growth period as needed	5-9
	Flood Irrigation		7-12
	Foliar Spray		2-5
Precautions and Warnings:			

- Avoid mixing this fertilizer with calcium fertilizers.
- Avoid mixing this fertilizer with Humic acid in the same container.
- It is recommended to test this fertilizer alone or in combination with other fertilizers or pesticides at a limited scale first.
- Recommended amounts may vary based on the type of product, age of the plant, and severity of deficiency.
- Store away from direct sunlight and moisture.
- Carefully read the usage instructions before use.

Black Iron Chelate GrowStar



Guaranteed Analysis: Soluble Iron

Ingredients

6%

Iron chelate with EDDHSA with ortho-ortho isomer 3.5%

Advantages of using Black Iron Chelate GrowStar:

- Synthesizes chlorophyll and increases photosynthesis.
- Improves growth and increases yield.
- Rapid absorption and transfer in plants.
- Increases product quality.
- Enhances greenness of the plant.
- Increases germination.

Usage Instructions:

Type of Cultivation	Timing of Use	Application Rate in Irrigation (kg/ha)
Agricultural	During the growing season	2-4
Orchard	During the growing season	40-100 grams per tree
Vegetables	During the growing season	2-4
Ornamental	During the growing season	2-4

Precautions and Warnings:

- Store away from direct sunlight and in a dry, cool place.
- Carefully read the usage instructions before use.
- Conduct mixing tests before mixing with other pesticides and fertilizers.
- Considering that iron absorption in trees sensitive to this element depends on many variables, it is recommended to use it on a small scale before widespread application.

Chelated Iron 6% Sepidar



Guaranteed Analysis: Soluble Iron Chelated Iron

6%

6%

Ingredients: Iron EDDHSA.

Advantages of using Chelated Iron Sepidar:

- Synthesizes chlorophyll and increases photosynthesis efficiency.
- Increases germination and crop growth.
- Enhances greenness of the plant.
- Improves product quality and quantity.

Usage Instructions:

Type of Cultivation	Timing of Use	Application Rate in Irrigation (kg/ha)
Agricultural	During the growing season	4-5
Orchard	During the growing season	50-100 grams per tree
Vegetables	During the growing season	4-5
Ornamental	During the growing season	4-5

Precautions and Warnings:

- Store away from light and in a dry, cool place.
- Carefully read the usage instructions before use.
- Conduct mixing tests before mixing with other pesticides and fertilizers.

Liquid Humic Acid GrowStar



Guaranteed Analysis:	Humic Acid	Fulvic Acid	Total Nitrogen (N)	Water-soluble Potassium (K ₂ O)
	14%	2%	1%	3%

Ingredients: Leonardite, potassium hydroxide.

Advantages of using Liquid Humic Acid GrowStar:

- Increases plant growth hormones such as auxin and cytokinin.
- Improves physical and chemical properties of the soil.
- Increases resistance to environmental stresses.
- Enhances chlorophyll production and photosynthesis efficiency.
- Increases nutrient absorption.
- Improves water retention in the soil.
- Regulates soil acidity (pH).
- Chlorine-free and sodium-free.
- Does not precipitate in pressurized irrigation systems.

Usage Instructions:

The best method for using Humic acid is through irrigation. Mix the required amount of Humic acid in a tank with water and apply as irrigation fertilizer.

Type of Cultivation	Type of Use	Timing of Use	Application Rate (L/ha)
Agricultural	Drip Irrigation	12-20 liters per hectare in each cultivation cycle	
	Flood Irrigation	15-25 liters per hectare in each cultivation cycle	
Orchard	Drip Irrigation	18-26 liters per hectare per year	
	Flood Irrigation	22-30 liters per hectare per year	

Type of Cultivation	Type of Use	Timing of Use	Application Rate (L/ha)
Houseplants	10 cc per liter for each plant		

Precautions and Warnings:

- Shake well before use.
- Store away from light and in a dry, cool place.
- Carefully read the usage instructions before use.
- Avoid combining with acidic products, calcium compounds, and metal salts.

Note: The concentration of Humic acid may vary with temperature changes, but this does not affect the quality and effectiveness of the product.

Powdered Humic Acid GrowStar



Guaranteed Analysis:	Potassium Humate (Humic)	Humic Acid	Water-soluble Potassium (K ₂ O)	Fulvic Acid
	70%	54%	16%	1.1%

Ingredients: Leonardite, potassium hydroxide.

Advantages of using Powdered Humic Acid GrowStar:

- Increases plant growth hormones such as auxin and cytokinin.
- Improves physical and chemical properties of the soil.
- Increases resistance to environmental stresses.
- Enhances chlorophyll production and photosynthesis efficiency.
- Increases nutrient absorption.
- Improves water retention in the soil.
- Regulates soil acidity (pH).
- Chlorine-free and sodium-free.
- Does not precipitate in pressurized irrigation systems.

Usage Instructions:

The best method for using Humic acid is through irrigation. Gradually add the required amount of Humic acid to a water tank for better solubility.

Type of Cultivation	Type of Use	Timing of Use	Application Rate (kg/ha)
Agricultural	Drip Irrigation	3-4 kg per hectare in each cultivation cycle	
	Flood Irrigation	4-5 kg per hectare in each cultivation cycle	
Orchard	Drip Irrigation	3-4 kg per hectare per year	
	Flood Irrigation	4-5 kg per hectare per year	
Houseplants	3 grams per thousand		

Precautions and Warnings:

- Due to its high moisture absorption, store in a dry and cool place.
- Carefully read the usage instructions before use.
- If necessary, repeat 2-3 times during the growing period.
- Avoid combining with acidic products, calcium compounds, sulfur, and mineral oils.

Black Combi (Micronutrient Mix) GrowStar



Guaranteed Analysis:	Total Nitrogen	Usable Phosphorus (P2O5)	Water-soluble Potassium (K2O)	Soluble Calcium (CaO)	Soluble Magnesium (MgO)	Chelated Iron	Soluble Iron	Chelated Manganese	Chelated Zinc	Chelated Copper	Soluble Boron	Soluble Molybdenum	Soluble Cobalt	Soluble Sulfur (SO3)
	13%	2.9%	7.3%	1.05%	0.83%	6%	6%	3%	2%	1%	0.5%	0.1%	0.2%	10%

Chelating Agent: EDDHSAM

Ingredients: Iron EDDHSAM, manganese EDDHSAM, zinc EDDHSAM, copper EDDHSAM, nitric acid, ammonia, urea, boric acid, sulfur, sodium molybdate, cobalt sulfate, calcium EDTA, magnesium EDTA.

Advantages of using Black Combo GrowStar:

- Increases vegetative growth and greenness of plants.
- Enhances reproductive growth and flower and fruit production.
- Increases resistance to stresses and diseases.
- Reduces soil acidity (pH) and salinity.
- Aids in nutrient absorption.
- Provides all essential nutrients required for plants.

Usage Instructions:

Application Method	Application Rate (kg/ha)	Timing of Use	Type of Cultivation
Drip Irrigation	3-4	Beginning of the growth season and then as needed	Agricultural
Foliar Spray	2-3	Beginning of the growth season and then as needed	Orchard
Drip Irrigation	3-4	Beginning of the growth season and then as needed	Vegetables
Foliar Spray	2-3	Every 15 to 30 days depending on the plant type	Ornamental

Precautions and Warnings:

- Due to the unique combination of elements in this product, it is recommended to use it as a foliar spray without mixing with other compounds.
- Store away from light and in a dry, cool place.
- Carefully read the usage instructions before use.

Organic Phosphate GrowStar



Guaranteed Analysis: Organic Carbon Organic Matter Phosphorus (P2O5)

18.5%

34%

5%

Ingredients: Vermicompost and triple superphosphate.

Advantages of using Organic Phosphate:

- Provides phosphorus required by plants through the roots.
- Improves soil physical conditions.
- Enhances root growth and spread.
- Increases activity of beneficial microorganisms in the soil.
- Increases flowering and product quality and quantity.

Usage Instructions:

kg/ha	Timing of Use	Type of Cultivation
400-600	During tillage operations before planting	Fruit orchards
500-1000	During planting in autumn and winter	Agricultural plants
500-700	During tillage operations before planting and during mounding	Vegetable and melon plants
400-600	During tillage operations before planting and during mounding	Ornamental plants

Usage Method:

In agricultural plants, before planting, the required amount of fertilizer should be evenly spread on the field and mixed with the soil. In fruit orchards, it can be placed in strip or ring-shaped holes during planting around the root area.

Precautions:

- Store away from direct sunlight and moisture.
- Carefully read the usage instructions before use.

NPK 20-20-20 Sepidar



Guaranteed Analysis:	Total Nitrogen (N)	Usable Phosphorus (P2O5)	Water-soluble Potassium (K2O)
	20%	20%	20%

Ingredients: Monopotassium phosphate, monoammonium phosphate, potassium nitrate, urea, potassium sulfate.

Usage Instructions:

Type of Product	Type of Use	Timing of Use	Application Rate (kg/ha)
Agricultural	Drip Irrigation	At the beginning of vegetative growth and then throughout the growth period as needed	8-15
	Flood Irrigation		10-20
	Foliar Spray		3-4
Orchard	Drip Irrigation	At the beginning of vegetative growth and then throughout the growth period as needed	8-15
	Flood Irrigation		10-20
	Foliar Spray		2-5
Greenhouse	Drip Irrigation	At the beginning of vegetative growth and then throughout the growth period as needed	5-9
	Flood Irrigation		7-12
	Foliar Spray		2-5

Precautions and Warnings:

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| <ul style="list-style-type: none">• Avoid mixing this fertilizer with calcium fertilizers.• Avoid mixing this fertilizer with Humic acid in the same container.• It is recommended to test this fertilizer alone or in combination with other fertilizers or pesticides at a limited scale first.• Recommended amounts may vary based on the type of product, age of the plant, and severity of deficiency.• Store away from direct sunlight and moisture.• Carefully read the usage instructions before use. |
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NPK 12-12-36 Sepidar			
Guaranteed Analysis:	Total Nitrogen (N)	Usable Phosphorus (P2O5)	Water-soluble Potassium (K2O)
	12%	12%	36%
Ingredients: Monopotassium phosphate, monoammonium phosphate, potassium nitrate, urea, potassium sulfate.			
Advantages of use:			

- Increases leaf and root growth and development.
- Enhances germination and flowering.
- Improves fruit color.
- Boosts product yield.
- Increases resistance to environmental stresses.

Usage Instructions:			
Type of Product	Type of Use	Timing of Use	Application Rate (kg/ha)
Agricultural	Drip Irrigation	At the beginning of vegetative growth and then throughout the growth period as needed	15-10
	Flood Irrigation		20-15
	Foliar Spray		6-4
Orchard	Drip Irrigation	At the beginning of vegetative growth and then throughout the growth period as needed	15-10
	Flood Irrigation		15-10
	Foliar Spray		4-6
Greenhouse	Drip Irrigation	At the beginning of vegetative growth and then throughout the growth period as needed	5-9
	Flood Irrigation		7-12
	Foliar Spray		2-5
Precautions and Warnings:			

- Do not use as a foliar spray during flowering.
- Avoid mixing this fertilizer with calcium fertilizers.
- Avoid mixing this fertilizer with Humic acid in the same container.
- It is recommended to test this fertilizer alone or in combination with other fertilizers or pesticides at a limited scale first.
- Recommended amounts may vary based on the type of product, age of the plant, and severity of deficiency.
- Carefully read the usage instructions before use.

NPK 0-0-51 Sepidar Potassium Sulfate (SOP)



Guaranteed Analysis: Water-soluble Potassium (K₂O) Soluble Sulfur (S)

51

17.5

Ingredients: Potassium sulfate.

Advantages of use:

- This product is chlorine-free.
- Increases fruit color and taste quality.
- Increases resistance to environmental stresses.
- Enhances product storability.
- Reduces soil acidity due to the presence of sulfur.
- Increases resistance to plant diseases.
- Effective in protein synthesis and enzymatic reactions.

Usage Instructions:

Type of Product	Type of Use	Timing of Use	Application Rate (kg/ha)
Agricultural	Drip Irrigation	At the beginning of reproductive growth and then throughout the growth period as needed	8-15
	Flood Irrigation		15-20
	Foliar Spray		3-6
Orchard	Drip Irrigation	At the beginning of reproductive growth and then throughout the growth period as needed	15-20
	Flood Irrigation		15-25
	Foliar Spray		3-6
Greenhouse	Drip Irrigation	At the beginning of reproductive growth and then throughout the growth period as needed	8-15
	Flood Irrigation		10-15
	Foliar Spray		2-5

Precautions and Warnings:

- Avoid mixing this fertilizer with calcium fertilizers.
- Avoid mixing this fertilizer with Humic acid in the same container.
- It is recommended to test this fertilizer alone or in combination with other fertilizers or pesticides at a limited scale first.
- Recommended amounts may vary based on the type of product, age of the plant, and severity of deficiency.
- Store away from direct sunlight and moisture.
- Carefully read the usage instructions before use.

NPK 15-5-30 Sepidar			
Guaranteed Analysis:	Total Nitrogen (N)	Usable Phosphorus (P2O5)	Water-soluble Potassium (K2O)
	15%	5%	30%
Ingredients: Monopotassium phosphate, monoammonium phosphate, potassium nitrate, urea, potassium sulfate.			
Advantages of use:			

- Increases vegetative and reproductive growth.
- Enhances root development and flower and seed production.
- Strengthens stem resistance by fortifying cell walls.
- Increases resistance to environmental stresses.
- Improves fruit quality.
- Enhances photosynthesis efficiency.

Usage Instructions:			
Type of Product	Type of Use	Timing of Use	Application Rate (kg/ha)
Agricultural	Drip Irrigation	At the beginning of the growing season and then throughout the growth period as needed	7-12
	Flood Irrigation		8-15
	Foliar Spray		3-4
Orchard	Drip Irrigation	At the beginning of the growing season and then throughout the growth period as needed	10-15
	Flood Irrigation		15-25
	Foliar Spray		3-5
Greenhouse	Drip Irrigation	At the beginning of the growing season and then throughout the growth period as needed	5-9
	Flood Irrigation		7-12
	Foliar Spray		2-5

Precautions and Warnings:
<ul style="list-style-type: none"> • Avoid mixing this fertilizer with calcium fertilizers. • Avoid mixing this fertilizer with Humic acid in the same container. • It is recommended to test this fertilizer alone or in combination with other fertilizers or pesticides at a limited scale first. • Recommended amounts may vary based on the type of product, age of the plant, and severity of deficiency. • Store away from direct sunlight and moisture. • Carefully read the usage instructions before use.

NPK 30-15-15 Sepidar

Guaranteed Analysis:

- Total Nitrogen (N) 30%
- Available Phosphorus (P₂O₅) 15%
- Water-Soluble Potassium (K₂O) 15%

Components:

Monopotassium Phosphate - Monoammonium Phosphate - Potassium Nitrate - Urea - Potassium Sulfate

Benefits of Use:

- Increased vegetative growth suitable for the beginning of the growth period
- Enhanced stem resistance by strengthening cell walls
- Improved fruit quality
- Increased photosynthesis efficiency

Usage Instructions:

Product Type	Application Type	Timing of Use	Application Rate (kg per hectare)
Agricultural	Drip Irrigation	At the beginning of the growth season and then throughout the growth period as needed	7-12
	Flood Irrigation		8-15
	Foliar Spray		3-4
Horticultural	Drip Irrigation	At the beginning of the growth season and then throughout the growth period as needed	8-15
	Flood Irrigation		10-20
	Foliar Spray		2-5
Greenhouse	Drip Irrigation	At the beginning of the growth season and then throughout the growth period as needed	5-9
	Flood Irrigation		7-12
	Foliar Spray		2-5

Precautions and Warning:

- Avoid mixing this fertilizer with calcium fertilizers.
- Do not mix this fertilizer with Humic acid in the same container.
- It is recommended to test this fertilizer alone or in combination with other fertilizers or pesticides on a limited scale first.
- Recommended amounts vary depending on the type of product, age of the plant, and severity of deficiency.
- Store away from direct sunlight and moisture.
- Carefully read the usage instructions before application.