

English Catalog of Fertilizers



BARAN

توسعه راهکارهای کسب و کار باران

Baran Business Development Solutions



Grow star

Rustig



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1) Liquid Organic Sulfur – Organo Sulfur



Composition	Total Nitrogen	Water-soluble Potassium Oxide (K ₂ O)	Soluble sulfur	Amino acid	Organic carbon	Organic matter
Concentration w/v %	10	2	20	2	15	35

- **Benefits of using liquid organic sulfur - organosulfur**
 - Reducing soil salinity and pH
 - Increase absorbable phosphorus in the soil
 - Increasing resistance to diseases, especially fungal diseases
 - Increasing flowering and flowering, quality and quantity of products
 - Increase of oil in the seeds of oil plants
 - Increasing the activity of soil microorganisms
 - Increasing the amount of chlorophyll in leaves and protein in tissues

- **Doses and administration**

Crop	Foliar application	Dose L/ha
industrial crops	At the beginning of vegetative growth, and then once a month	2-4
Tree crops	At the start of the growing season, and before and after flowering	4-5
Horticultural crops	At the start of the growing season, and then every 10 days if needed	2-3
Ornamental crops	Every 14 to 30 days throughout the entire growth cycle	2-3

- For irrigation, use at least 10 liters per hectare
- It can be used in all growth stages
- To enhance its effectiveness when used in the soil, mix 2 kg of urea with each liter of fertilizer

2) Calcium Liquid Sulfur - CalciSul



Composition	Total Nitrogen	Calcium (Ca)	Amino acid	Organic matter	Sulfur
Concentration w/v %	10	10	2	30	10

- **Benefits of using calcium liquid sulfur-CalciSul**

- Improving the physical and chemical properties of the soil
- Help to increase the absorption of nutrients by reducing soil pH and salinity
- Improving the activity of beneficial soil microorganisms
- Increase in resistance to hemolytic agents, especially fungal diseases
- Extremely effective role in increasing the quality and quantity of products

- **Doses and administration**

Crop	Foliar Application	Dose L/ha
industrial crops	At the start of the growing season and then once a month	2-3
Tree crops	At the start of the growing season, and before and after flowering	4-5
Horticultural crops	At the start of the growing season, and then every 10 days if needed	2-3
Ornamental crops	Every 14 to 30 days throughout the entire growth cycle	2-3

- For irrigation, use at least 10 liters per hectare.

3) Organic Liquid Fertilizer – Organo Base



Composition	Amino acid	Fulvic acid	Humic acid	Nitrogen	Phosphorus pentoxide (P ₂ O ₅)	Potassium Oxide (K ₂ O)	Organic carbon	Organic matter
Concentration w/v %	10	20	0/5	5	2	2	20	40

Composition	Magnesium	Calcium	Iron	Zinc	Copper
Concentration ppm	7000	5000	800	300	90

- **Benefits of using liquid organic fertilizer – Organo base**
 - Increasing the vegetative and reproductive growth of the plant
 - Improving the physical and chemical properties of the soil
 - Increased absorption of nutrients
 - Improving the activity of microorganisms
 - Increasing resistance to environmental stress (cold stress, heat stress, drought stress, etc.)

- **Doses and administration**

Crops	Time of Application	Foliar Application (ml/l)	Irrigation (l/h)
all types of cultivation	At the beginning of the growing season and then during the growth period	4	10-35

4) Amino Acid and Liquid Fulvic Acid – Amino Full



Composition	Amino acid	Fulvic acid	Nitrogen	Phosphorus pentoxide (P ₂ O ₅)	Potassium Oxide (K ₂ O)	Organic carbon	Organic matter
Concentration w/v %	20	20	5	5	5	22	50

Composition	Magnesium	Calcium	Iron	Zinc	Copper
Concentration ppm	7000	5000	800	300	90

- **Benefits of using amino acid fertilizer and liquid fulvic acid – Amino full**
 - Increasing plant resistance against environmental stresses
 - Increasing the effect of toxins and reducing its negative effect on plants
 - Improving pollination performance and increasing productivity
 - Increasing product quantity and quality
 - The chelating properties of elements
 - Increasing the effectiveness and reducing the side effects of poisons
 - Increasing resistance to environmental stress (cold stress, heat stress, drought stress, etc.)

- Doses and administration

Crop	Foliar Application	Dose L/ha
industrial crops	At the start of the growing season and then once a month	2-4
Tree crops	At the start of the growing season, and before and after flowering	4-5
Horticultural crops	At the start of the growing season, and then every 10 days if needed	2-3
Ornamental crops	Every 14 to 30 days throughout the entire growth cycle	2-3

- For all types of crops, 20 liters per hectare should be used for irrigation

5) Liquid Phosphorus Fertilizer – PhosfoMax



Composition	Phosphorus pentoxide (P ₂ O ₅)	Nitrogen	Potassium Oxide (K ₂ O)	Iron	Zinc	Organic matter
Concentration w/v %	25	5	5	1	1	5

- **Benefits of using liquid phosphorus fertilizer – phosfo max:**
 - Effective in cell division, improving rooting and stem formation
 - Development and stimulation of root growth
 - Increased protein synthesis
 - Increased flowering and seed production
 - Improve product quality
 - Increased resistance to plant diseases

- **Doses and administration**

Crop	Foliar Application	Dose L/ha
industrial crops	At the beginning of the growing season and during the growth period if needed	2-3
Tree crops	At the beginning of the growing season and during the growth period if needed	4-5
Horticultural crops	At the beginning of the growing season and during the growth period if needed	2-3
Ornamental crops	Every 14 to 20 days throughout the entire growth cycle	2-3

- For all types of crops 10- 20 liters per hectare should be used for irrigation.
- It can be used in all stages of growth of all plants.

6) Liquid Potassium Fertilizer – PotaMax



Composition	Nitrogen	Potassium	Amino Acid	Fulvic Acid	Organic matter
Concentration w/v %	5	25	5	2	25

- **Benefits of using liquid potassium**

- Avoid bending the stem
- Increasing starch and protein in the plant
- Controlling the ion balance in the plant
- Increase photosynthesis and improve performance
- Increasing resistance to environmental stress (cold stress, heat stress, drought stress, etc.)

- **Doses and administration**

Crop	Foliar Application	Dose L/ha
industrial crops	At the beginning of reproductive growth of plant and during the growth period if needed	2-3
Tree crops	At the beginning of reproductive growth of plant and during the growth period if needed	4-5
Horticultural crops	At the beginning of reproductive growth of plant and during the growth period if needed	2-3
Ornamental crops	Every 14 to 20 days throughout the entire growth cycle	2-3

- For all types of crops, 10-20 liters per hectare should be used for irrigation.

7) Complete Liquid Fertilizer - Organo Magic



Composit ion	Nitrog en	Phospho rus	Potassi um	Iro n	Sulf ur	Ami no Acid	Zi nc	Mangan ese	copp er	Bromi ne	Orga nic matte r
Concentra tion w/v %	5	5	5	5	5	5	3	1	0/5	0/5	25

Composition	Calcium	Magnesium
Concentration ppm	2500	2500

- Benefits of Using Complete liquid fertilizer - Organo Magic

- Providing all the nutrients required by the plant
- Improving absorption and transfer of nitrogen, phosphorus and potassium in the plant
- Increasing the quality of seed and fruit growth
- Synthesis of chlorophyll and increased photosynthesis
- Increasing protein synthesis and enzyme activity
- Effective role in plant growth and health
- Improvement of metabolic processes in the plant

- Doses and administration

Crop	Foliar Application	Dose L/ha
industrial crops	At the beginning of bud opening and during the growing period if needed	2-3
Tree crops	At the beginning of the growing season and during the growth period if needed	3-4
Horticultural crops	At the beginning of the growing season and during the growth period if needed	2-3
Ornamental crops	Every 14 to 20 days throughout the entire growth cycle	2-3

8) Liquid Copper Fertilizer - Fungi Ban



Composition	Copper	Nitrogen	Organic matter
Concentration w/v %	6	5	20

- Benefits of using Liquid copper fertilizer - Fungi Ben

- Increase plant resistance against oxidative stress
- Increasing protein production and improving enzyme processes
- Increasing resistance to pathogens, especially fungal diseases
- Increase the productivity of photosynthesis
- Improving the physical and chemical condition of the soil
- Help absorb nutrients from the soil
- Doses and administration

- Doses and administration

Crop	Foliar Application	Dose L/ha
industrial crops	During the vegetative cycle	1-2
Tree crops	During the swelling of the buds and after the petals have shed	3-4
Horticultural crops	During the vegetative cycle	1-2
Ornamental crops	During the vegetative cycle	1-2

- Avoid spraying during flowering
- Use 5-10 liters per hectare in irrigation systems

9) Liquid Iron - Ferrous Amine



Composition	Iron	Nitrogen	Sulfur	Amino Acid	Organic matter
Concentration w/v %	7	10	12	4	45

- **Benefits of liquid iron-ferrosamine**
 - Increasing chlorophyll synthesis and increasing photosynthesis
 - Increasing the efficiency of consumption of other elements
 - Improve growth and increase performance
 - Fast absorption and transport in the plant
 - Increase product quality
 - Increase germination
 - Improving soil structure and helping to better absorb soil element

- Doses and administration

Crop	Irrigation Application	Dose L/ha
industrial crops	Throughout the cycle	3-6
Tree crops	Throughout the cycle	4-8
Horticultural crops	Throughout the cycle	3-6
Ornamental crops	Throughout the cycle	3-6

10) Grow Star Black Iron Chelate



Composition	Iron
Concentration w/v %	6

Chelated iron with EDDHSA with ortho-ortho isomer 3.5%

-Benefits of using Black Iron Iron Chelate

- Chlorophyll synthesis and increased photosynthesis
- Improve growth and increase performance
- Fast absorption and transport in the plant
- Increase product quality and quantity
- Increase the greenness of the plant

Increase germination

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-Doses and administration

Crop	Irrigation Application	Dose Kg/ha
industrial crops	Throughout the cycle	2-4
Tree crops	Throughout the cycle	40-100 g/Tree
Horticultural crops	Throughout the cycle	2-4
Ornamental crops	Throughout the cycle	2-4

11) Grow Star Powdered Humic Acid



Composition	Water-soluble Potassium Oxide (K ₂ O)	Humic Acid	Fulvic Acid
Concentration W/V%	16	54	1.1

- **Benefits of using Gervastar powdered humic acid**
 - Improving the physical and chemical properties of the soil
 - Increasing resistance to environmental stress
 - Increasing chlorophyll production and photosynthesis efficiency
 - Increased absorption of nutrients
 - Increasing water retention in the soil
 - Adjusting the acidity (PH) of the soil

- Doses and administration

Crop	Application	Dose Kg/ha
Industrial and Horticultural crops	Drop irrigation	3-4 per cycle
	Flood irrigation	4-5 per cycle
Tree crops	Drop irrigation	3-4 per year
	Flood irrigation	4-5 per year
Ornamental crops	Irrigation	3:1000

12) Grow Star Black Combi



Composition	Total Nitrogen	Phosphorus pentoxide (P ₂ O ₅)	Potassium Oxide (K ₂ O)	Calcium Oxide (CaO)	Magnesium Oxide (MgO)	Chelated Iron	Soluble Iron
	13	2.29	7.23	1.05	0.83	6	6
Concentration W/V%	Chelated Manganese	Chelated Zinc	Chelated Copper	Chelated Bromine	molybdenum	Cobalt	Soluble sulfur (SO ₄)
	3	2	1	0.5	0.01	0.02	10

- Benefits of using Black Combi

- Increasing vegetative growth and greenness of the plant
- Increasing reproductive growth and flower and fruit production
- Increasing resistance to stress and diseases
- Reducing soil pH and salinity
- Help absorb nutrients
- Supplying all essential elements needed by the plant

- Doses and administration

Crop	Time of Application	Dose (Kg/h)	
		Foliar Application	Drop Irrigation
Industrial crops	At the beginning of the growing season and during the growth period if needed	2-3	3-4
Tree crops	At the beginning of the growing season and during the growth period if needed	3-4	4-5
Horticultural crops	At the beginning of the growing season and during the growth period if needed	2-3	3-4
Ornamental crops	Every 15 to 30 days depending on the type of plant	2-3	3-4

13) Sepidar Iron Plus



Composition	chelate iron	Soluble Iron
Concentration w/v %	6	6

(4.8 ortho ortho equivalent based on field tests)

- **Benefits of using IronPlus Sepidar**

- Synthesis of chlorophyll and increasing the efficiency of photosynthesis
- Increase germination and crop growth
- Increase the greenness of the plant
- Increase product quality and quantity

- **Doses and administration**

Crop	Irrigation Application	Dose L/ha
industrial crops	Throughout the cycle	4-5
Tree crops	Throughout the cycle	50-100 g/Tree
Horticultural crops	Throughout the cycle	4-5
Ornamental crops	Throughout the cycle	4-5

14) Sepidar Multi Complex



Composition	Total Nitrogen	Phosphorus pentoxide (P ₂ O ₅)	Potassium Oxide (K ₂ O)
Concentration W/V%	20	20	20

Composition	Iron	Zinc	Bromine	copper	manganese
Concentration PPM	1000	500	400	400	400

- **Benefits of using Sepidar Multi Complex**

- Increase root growth and development
- Increased leaf and stem growth
- Increase germination and flowering
- Increase product performance
- Increased resistance to environmental stress
- Enhance the efficiency of photosynthesis

- **Doses and administration**

Crop	Application	Time of Application	Dose (L/ha)
Industrial and Horticultural crops	Drop irrigation	At the beginning of vegetative growth and during the growth cycle if needed	8-15
	Flood irrigation		10-20
	Foliar application		3-4
Tree crops	Drop irrigation	At the beginning of vegetative growth and during the growth cycle if needed	8-15
	Flood irrigation		10-20
	Foliar application		2-5
Ornamental crops	Drop irrigation	At the beginning of vegetative growth and during the growth cycle if needed	5-9
	Flood irrigation		7-12
	Foliar application		2-5

15) Sepidar Potas Plus



Composition	Potassium soluble in water	Soluble sulfur	Amino acid
Concentration W/V%	53	17.5	1

The breakdown is based on the registration of fertilizer, 51% potassium and 17.5% sulfur. (contains amino acid)

- **Benefits of using Sepidar Potas Plus**
 - Increasing the quality of fruit color and taste
 - Increased resistance to environmental stress
 - Increase product storage
 - Reducing the acidity of the soil due to the presence of sulfur
 - Increased resistance to plant diseases
 - Increase in protein synthesis and enzymatic reactions
 - Increasing the efficiency of photosynthesis
 - Increasing the absorption efficiency of sprayed elements

- **Doses and administration**

Crop	Application	Time of Application	Dose (L/ha)
Industrial and Horticultural crops	Drop irrigation	At the beginning of vegetative growth and then during the growth period if needed	30-35
	Flood irrigation		30-35
	Foliar application		3-6
Tree crops	Drop irrigation	At the beginning of vegetative growth and then during the growth period if needed	40-50
	Flood irrigation		40-50
	Foliar application		3-5
Ornamental crops	Drop irrigation	At the beginning of vegetative growth and then during the growth period if needed	2-3
	Flood irrigation		5-7
	Foliar application		2-4

16) Grow Star Liquid Humic Acid



Composition	Total Nitrogen	Water-soluble Potassium Oxide (K ₂ O)	Humic Acid	Fulvic Acid
Concentration W/V%	1	3	14	2

- **Benefits of using Grow Star liquid humic acid**
 - Improving the physical and chemical properties of the soil
 - Increasing resistance to environmental stress
 - Increasing chlorophyll production and photosynthesis efficiency
 - Increased absorption of nutrients
 - Increasing water retention in the soil
 - Adjusting the acidity (pH) of the soil

- Doses and administration

Crop	Application	Dose L/ha
Industrial and Horticultural crops	Drop irrigation	12-20 per cycle
	Flood irrigation	15-23 per cycle
Tree crops	Drop irrigation	18-26 per year
	Flood irrigation	22-30 per year
Ornamental crops	Irrigation	10 cc per plant

17) Sepidar Potassium Sulfate



Composition	Potassium Oxide (K ₂ O)	Soluble Sulfur
Concentration W/V%	51	17.5

- Benefits of Using Sepidar Potassium Sulfate:

- Increasing the quality of fruit color and taste
- Increased resistance to environmental stress
- Increase product storage
- Reduction of soil acidity due to the presence of sulfur
- Increased resistance to plant diseases
- Effective in protein synthesis and enzymatic reactions
- Increasing the efficiency of photosynthesis
- Increasing the absorption efficiency of sprayed elements

- Doses and administration

Crop	Application	Time of Application	Dose (L/ha)
Industrial and Horticultural crops	Drop irrigation	At the beginning of vegetative growth and then during the growth period if needed	30-35
	Flood irrigation		30-35
	Foliar application		3-6
Tree crops	Drop irrigation	At the beginning of vegetative growth and then during the growth period if needed	40-50
	Flood irrigation		40-50
	Foliar application		3-5
Ornamental crops	Drop irrigation	At the beginning of vegetative growth and then during the growth period if needed	2-3
	Flood irrigation		5-7
	Foliar application		2-4

18) Sepidar NPK 15-5-30 Fertilizer



Composition	Total Nitrogen	Phosphorus pentoxide (P ₂ O ₅)	Potassium Oxide (K ₂ O)
Concentration W/V%	15	5	30

- **Benefits of Using Fertilizer 30-5-15 Sepidar:**

- Increased vegetative and reproductive growth
- Increased rooting and flower and seed production
- Increasing the resistance of stems by strengthening the cell wall
- Increased resistance to environmental stress
- Fruit quality Jew
- Enhance the efficiency of photosynthesis

- **Doses and administration**

Crop	Application	Time of Application	Dose (L/ha)
Industrial and Horticultural crops	Drop irrigation	At the beginning of vegetative growth and then during the growth period if needed	7-12
	Flood irrigation		8-15
	Foliar application		3-4
Tree crops	Drop irrigation	At the beginning of vegetative growth and then during the growth period if needed	10-15
	Flood irrigation		15-25
	Foliar application		2-5
Ornamental crops	Drop irrigation	At the beginning of vegetative growth and then during the growth period if needed	5-9
	Flood irrigation		7-12
	Foliar application		2-5

19) Sepidar NPK 20-20-20 Fertilizer



Composition	Total Nitrogen	Soluble Phosphorus	Potassium Soluble in Water
Concentration W/V%	20	20	20

Composition	Iron	Zinc	Copper	Bromine	Manganese
Concentration ppm	1000	500	400	400	400

- Benefits of using Sepidar 20-20-20 NPK fertilizer

- Increase root growth and development
- Increased leaf and stem growth
- Increase germination and flowering
- Increase product performance
- Increased resistance to environmental stress
- Enhance the efficiency of photosynthesis

- Doses and administration

Crop	Application	Time of Application	Dose (L/ha)
Industrial and Horticultural crops	Drop irrigation	At the beginning of vegetative growth and then during the growth period if needed	8-15
	Flood irrigation		10-20
	Foliar application		3-4
Tree crops	Drop irrigation	At the beginning of vegetative growth and then during the growth period if needed	8-15
	Flood irrigation		10-20
	Foliar application		2-5
Ornamental crops	Drop irrigation	At the beginning of vegetative growth and then during the growth period if needed	5-9
	Flood irrigation		7-12
	Foliar application		2-5

20) Grow Star Organic Phosphate



Composition	Phosphorus (P2O5)	Total organic matter	Organic carbon
Concentration W/V%	5	34	18.5

- **The benefits of using Grow Star Organic Phosphate**
 - Supplying phosphorus needed by the plant through the roots
 - Improving soil texture and root development
 - Increase flowering and quality and quantity of products
 - Increasing the activity of soil microorganisms

- Doses and administration

Crop	Irrigation Application	Dose L/ha
industrial crops	in tillage operations before planting	400-600
Tree crops	During the manure pit in autumn and winter	500-1000
Horticultural crops	In tillage operations before planting and during tilling of plants	500-700
Ornamental crops	In tillage operations before planting and during tilling of plants	400-600

- In crops, before planting, a sufficient amount of fertilizer should be spread evenly on the field and mixed with the soil. In fruit orchards, it can be placed in strip or ring pits near the roots at the time of planting.

About us

Values :

- ✚ Respect for the consumer
 - adhering to work honesty as the main pillar of customer relations
- ✚ Innovation
 - Commitment to innovation with the goal of increasing efficiency in all products and services
- ✚ Quality
 - Using the best quality available in all products

- ❖ Our vision
 - The leading company in providing sustainable solutions for healthy food production

- ❖ Our mission
 - Providing innovative solutions to increase agricultural productivity

- ❖ History
 - Baran company is based on more than a decade of activity in the agricultural industry, some of which will be mentioned below.
 - Establishing a modern greenhouse and starting to promote greenhouse crops in 2018.
 - Establishment of Sepehrayin Baran Greenhouse Company with the aim of exploiting agricultural land and launching greenhouse projects in North Khorasan in February 2011.
 - Selected by Sima documentary network as a greenhouse agricultural cooperative in 2015.
 - Selected as the best agricultural cooperative by the Ministry of Labor, Cooperative and Social Welfare in 2016.
 - Business partner and R&D office of Agrokhimprom Russia in 2016-2016.
 - Commercial and technical partner of Tejarat Akrokhimai of Tajikistan since 2017.
 - Technical and commercial studies associate of Opex Holding Sri Lanka in 2019-2020.

- Establishment of Baran Business Solutions Development Company with the aim of research and commercialization of High-Tech agricultural solutions and inputs in Science and Technology Park in August 2017.
- The development of integrated control methods of the Tota moth (one of the most destructive pests of tomatoes) and the commercialization of the production of a special type of fertilizer absorption improver during the years 2017-2018.
- Establishing the office in the northeast of the country in Bojnord with the aim of using the regional capacities in 2018.
- Agricultural consulting and participation in the exploitation of more than 1700 hectares of agricultural pistachio orchards in the northeast of Iran since 2019.
- Obtaining a brokerage license for the distribution of subsidized agricultural inputs from the Agricultural Support Services Company affiliated to the Ministry of Agricultural Jihad with a capacity of 1200 tons per year in 2019.
- Registering the trade name "Sapidar" with the aim of producing and distributing quality agricultural inputs.
- Production of natural honey with "Zargan" brand since 2019.
- Development of a team of regional experts in the country since 2019.

✚ This way continues...



✚ Thanks for your attention

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