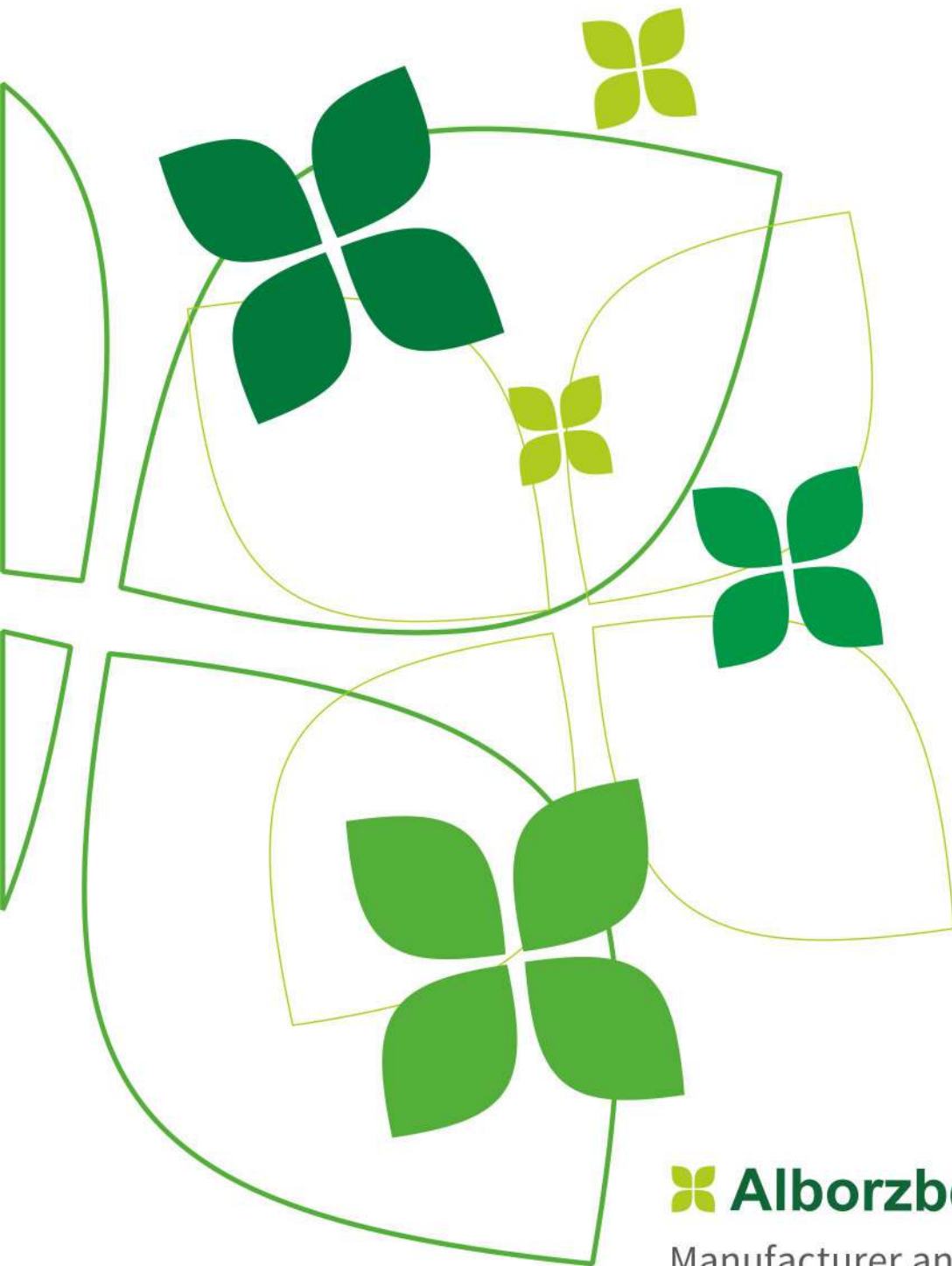


Behsam



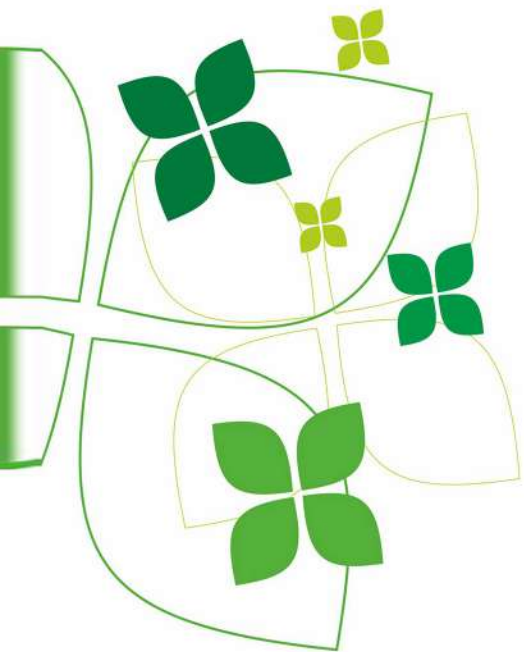
 **Alborzbeh sam**

Manufacturer and importer of plant protection chemicals, veterinary pest-control solutions, sanitary disinfectants, and high-quality agricultural fertilizers.

1	Contents
3	Corporate History
4	Pesticides
5	Abamectin 1.8% EC
6	Ethion 47% EC
7	Acetamiprid 20% SP
8	Imidacloprid 35% SC
9	Indoxacarb 15% SC
10	Permethrin 25% EC
11	Profenofos 50% EC
12	Primicarb 50% WP
13	Deltamethrin 2.5% EC
14	Pyriproxyfen 10 EC
15	Trichlorfen 80% WP
16	Dichlorvos 50% EC
17	Dimethoate 40% EC
18	Cypermethrin 40% EC
19	Fenpropathrin 10% EC
20	Fipronil 0.2% G
21	Fenitrothion 50% EC
22	Fenvalerate 20% EC
23	Malathion 57% EC
24	Tebuconazole 20% SC
25	Hexaflumuron 10% EC
26	Lambda cyhalothrin 5% SC
27	Spinosad 24% SC
28	Emamectin benzoate 5.7% SG
29	Emamectin benzoate+ Lufenuron 45% WG
30	Lambda cyhalothrin + Thiamethoxam 25% SC
31	Flonicamid 50% WG
32	Alphacypermethrin 10% SC
33	Phosalone 35% EC
34	Cartap hydrochlorid 4% GR
35	Alphacypermethrin 10% EC
36	Abamectin 2% SC
37	Emamectin benzoate + Indoxacarb 9% SC
38	Fipronil 5% SC
39	Herbicide
40	Acetochlor 50% EC
41	Atrazine 80% WP
42	Bentazone 48% SL
43	Pertilachlor 50% EC
44	Pendimethalin 33% EC
45	Tribenuron 75% DF
46	Trifluralin 48% EC
47	2,4,D +MCPA 67.5% SL
48	2,4,D 72% SL
49	Phenmedipham+ desmedipham+ ethofumasate 27.4% EC
50	Fenoxaprop P-ethyl 7.5% EW
51	Clethodim 12% EC
52	Clodinafop propargyl 8% EC
53	Glyphosate 41% SL
54	Metribuzin 70% WP
55	Molinate 71% EC
56	Nicosulfuron 4% OD
57	Haloxypop R- methyl 10.8% EC
58	Clopyralid 30% SL
59	Linuron 45% SC
60	Oxadiazon 12%
61	Bispyribac sodium 40% SC
62	Pinoxaden 5% SC

63	Bensulfuron methyl 60% WG
64	Sulfosulfuron 75% WG
65	Glufosinate ammonium 20% SL
66	Yodosulfuron – methyl sodium+ mesosulfuron 1.2% OD
67	Fungicides
68	Iprodion +carbendazim 52.5 % WP
69	Propamocarb hydrochloride 72.2% SL
70	Penconazole 20% EW
71	Tebuconazole 6% FS
72	Tebuconazole 2% DS
73	Tebuconazole 25% EW
74	Kresoxim methyl 50% WG
75	Propiconazole 25% EC
76	Tricyclazole 75% WP
77	Thiophanate –methyl 70% WP
78	Cymoxanil + famoxadone 52.5% WG
79	Sulfur 80% DF
80	Copper oxychloride 35% WP
81	Mancozeb 80% WP
82	Captan 50% WP
83	Difenoconazole 3% FS
84	Trifloxystrobin 50% WG
85	Metalaxyl 5% GR
86	Metalaxyl + mancozeb 72% WP
87	Tridemorph 75% EC
88	Fosetyl aluminium 80% WDG
89	Bordax 18% SC
90	Bordo mixture
91	Carbendazim 60% WP
92	Dodin 65% WP
93	dimethomorph+pyraclostrobin 18.7% DF
94	Acaricides, Molluscicides & Growth Regulator Household Insecticides & Veterinary Products
95	Spirodiclofen 24% SC
96	Boromoporphylate 25% EC
97	Propargite 57% EC
98	PYIDABEN 20% WP
99	enpyroximate 5% SC
100	Clofentezine 50% SC
101	Hexythiazox 10% EC
102	Etoxazol 10% SC
103	Metaldehyde 6% B
104	Gibberellic acid 10% EC
105	Cyprmetrin 10% EC
106	Lambda-cyhalothrin 5% EC
107	BEHESTAR INSECTICIDE Cyprmetrin 10% EC
108	BEHESTAR INSECTICIDE SPRAY
109	BEHESTAR INSECTICIDE SPRAY
110	BEHESTAR INSECTICIDE Cyprmetrin Etoxazol 1.2 powder
111	BEHESTAR INSECTICIDE Lambda-cyhalothrin 20% powder
112	Emulsifiable oil
113	Emulsifiable 80% L
114	Emulsifiable 90% EC
115	Mojante Behsam
116	Diocetyl Behsam
117	Fertilizer
118	Sivex NPK 20-20-20

Number page		Number page	
119	Sivex NPK 12-10-36	164	Phytomax phosphorus, calcium & boron
120	Sivex NPK 13-49-06	165	Phytomax PH regulator
121	Majister organic fertilizer	166	Phytomax calcium, zinc & magnesium
122	Sara enriched organic liquid	167	Phytomax fruit set
123	Ultrafort PK 5-57	168	Phytomax fost
124	Green power iron chelate 6%	169	Phytomax containing S, K, Cu, Si
125	Ferro kevin iron chelate 6%	170	Phytomax NPK 14-52-14
126	Fenix silver super humate	171	Phytomax liquid soil disinfectant
127	Fenix silver super organic	172	Phytomax 20-20-20 NPK
128	Fenix silver mineral magic	173	Phytomax calcium-boron
129	Peat	174	Phytomax copper-sulfate
130	Biomond liquid calcium nitrate	175	Phytomax potassium nitrate
131	Biomond calcium nitrate	176	Biomond amino-acid
132	Indogulf humico	177	Biomond seaweed
133	Matador fer green 4.8%	178	Phytomax liquid amino acid
134	Matador fer green 3.5%	179	Phytomax amino-calcium
135	Apache liquid humic acid	180	Phytomax humic acid powder
136	Apache micro mix	181	Phytomax k55
137	Apache humic potas	182	Phytomax NPK 5-25-25
138	Apache PK6-60	183	Phytomax liquid humic
139	Indogolf micro mix	184	Phytomax magnesium sulfate
140	Indogolf humic potassium	185	Ortho force iron 6% powder
141	Phytomax mono potassium phosphat	186	Phytomax folic acid
142	mono ammonium phosphate	187	Phytomax multi complex
143	Phytomax zinc sulfate	188	Phytomax NPK 5-5-5 GR
144	Phytomax urea phosphate	189	Phytomax NPK 9-7-7 GR
145	Phytomax soil Ph regulator	190	Phytomax NPK 10-10-10 GR
146	Phytomax potassium sulfate	191	Phytomax PK 5-15 GR
147	Phytomax anti salt	192	Phytomax NPK 12-12-12 GR
148	Phytomax zinc & phosphorous	193	Phytomax KMg GR
149	Phytomax powder potassium silicate	194	Phytomax S+Cu & HUMIC ACID GR
150	Phytomax fish fertilizer	195	Phytomax K20 GR
151	Phytomax 20-20-20 NPK	196	Phytomax micro complete
152	Phytomax 13-49-6 NPK	197	Phytomax growth enhancer
153	Phytomax 35-5-5 NPK	198	Phytomax 12-11-18+21.5% SO ₃ GR
154	Phytomax 15-5-30 NPK	199	Phytomax ZINC+HUMIC ACID GR
155	Phytomax potassium silicate	200	Phytomax micro-organic GR
156	Phytomax IRON 6%	201	Phytomax NPK 15-5-15 GR
157	Brada kaolin silica	202	Phytomax Si+ GR
158	Phytomax liquid boron with copper		
159	Phytomax PK 56-12		
160	Phytomax Zn 50% SC		
161	Phytomax Sulphur 50% SC		
162	Phytomax Sulphur 80% SC		
163	Phytomax NPK 25-25-25 SC		



AlborzBehsam

Pesticide & Fertilizer Manufacturer

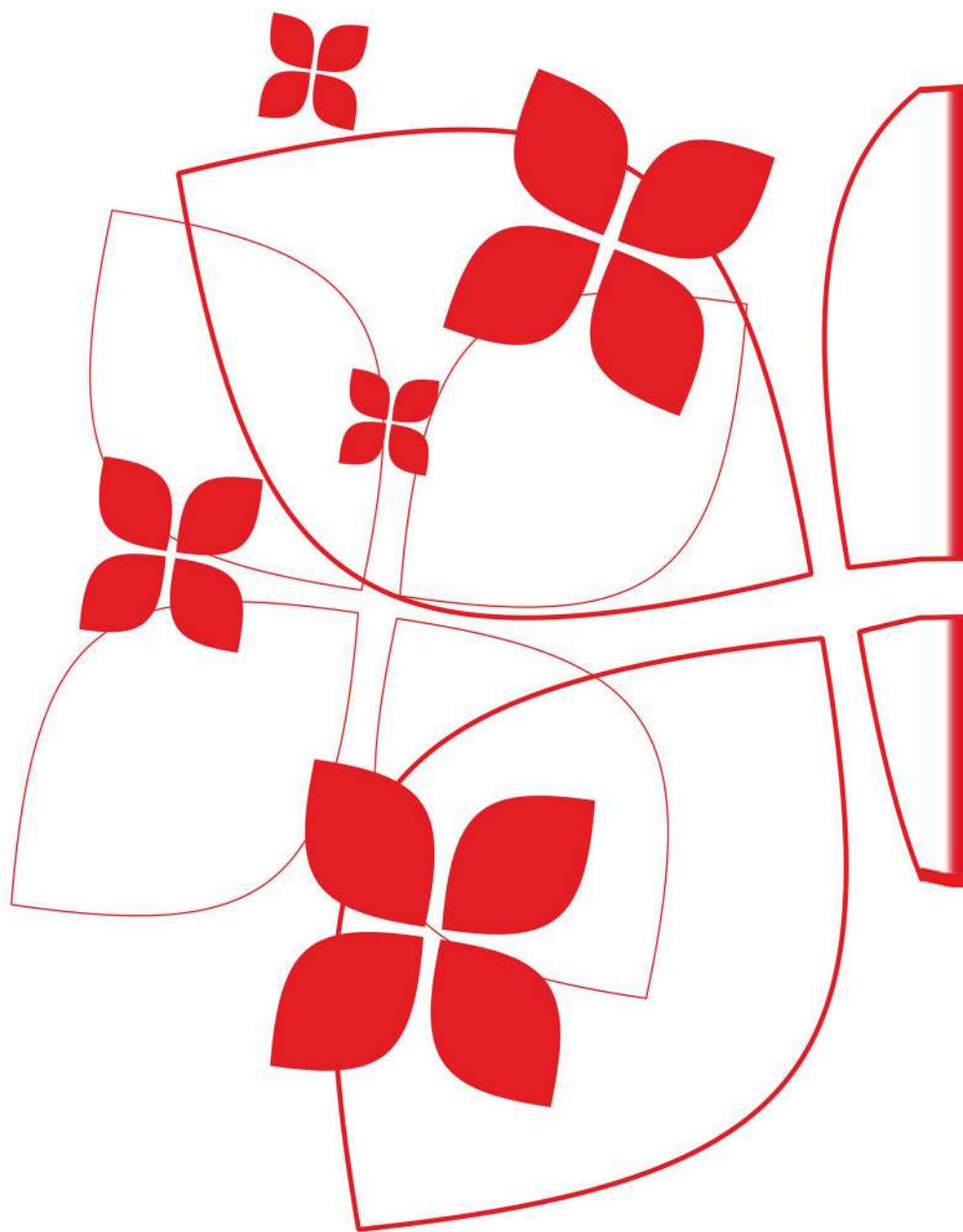
Alborz BehSam Company was established in 2007 with the aim of production of various pesticides and agricultural fertilizers on the area of 30,000 square meters, including sophisticated laboratories and production lines, packaging salons and facilitated warehouses for storage of products and raw materials in Arasanj Industrial Town, near Buin Zahra city in Iran. This company has the ability to produce a variety of agricultural pesticides such as insecticides, herbicides, acaricides, fungicides and emulsifiable oils and also solid and liquid fertilizers and hygienic pesticides. This factory has the laboratories equipped with quality control facilities in accordance with the international standards of reference reputable organizations such as WHO and FAO. AlborzBehSam benefits experienced specialists in the fields of plant protection, soil science and plant nutrition, horticulture, agronomy and chemistry and its activities is under the supervision of the Plant Protection Organization of Iran. AlborzBehSam Company believes in environmental protection and has tried its products be in accordance with environmental issues. The company's efforts are in the direction with the aim of minimizing damage to the environment, and protection of beneficial organisms and soil microorganisms. This company also pays special attention to sufficient supply of products with the most appropriate packaging available and always relies on the goal of satisfying all consumers of its products.



Sara Pak Zist

Sara Pak Zist National Broadcasting Company was established in 2007 as the first distributor of raw materials and formulations products including all kinds of pesticides and fertilizers in Iran. This company employs experienced specialists, and has several subsidiaries such as AlborzBehSam (producer of pesticides and fertilizers) and Iranian Aria Khatam Companies (producer of biological products). It has a license to import fertilizers and biological control agents, agricultural equipment's and drip irrigation systems which are managed as a holding company. Sara Pak Zist National Broadcasting Company is proud to receive ISO 9001 and ISO 10002 certifications and has the exclusive sales representation of products of more than 10 famous Iranian manufacturers in Iran. This company has a prominent role in the distribution of agricultural chemicals throughout Iran.





Insecticides

Product Name: Abamectin 1.8% EC (Emulsifiable Concentrate)

Trade Name: Vertimec

Group: Avermectin

Type: Insecticide, Acaricide & Nematocide with **limited systemic action** and **contact and stomach activity**

Hazard Class (WHO): Extremely hazardous Ib

Pre-Harvest Interval (PHI):

- Citrus: 7 days
- Vegetables and cucurbits: 3 days

Application Management:

- Begin spraying **when first symptoms of infestation are observed**; repeat applications may be necessary.
- The **target pests become immobilized** after treatment, with **maximum mortality occurring 5 days post-application**.
- Effective mainly on **mobile insects and mites**; mites are quickly immobilized but may take **3–5 days to die**.
- **Highly toxic to honeybees and aquatic organisms**.

Compatibility and Mixing:

- **Do not mix with Captan**, as this can cause **phytotoxicity on stone fruit trees** such as apples and pears.

Target Crops, Pests, and Application Rates:

Crop	Pest	Application Rate
Vegetables & Cucurbits	Leaf miner	600 mL/ha
Citrus	Citrus red mite	20 mL Abamectin + 250 mL oil per 100 L water, single foliar spray

Название продукта: Абаментин 1,8% ЭК (эмульгируемый концентрат) **Тип:** Инсектицид, акарицид и нематодцид с ограниченным системным и контактным действием

اسم المنتج: أبا ميكتين ١.٨ % EC (مركز قابل للاستحلاب (النوع: مييد حشري، مييد للقراد والديدان الخيطية ذو تأثير نظامي محدود وتأثير تلامسي



Abamectin 1.8% EC

www.alborzbehamsam.com

Pesticides



Ethion 47% EC

info@alborzbehsam.com

Pesticides

**Product Name:** Ethion 47% W/W (Emulsifiable Concentrate)**Trade Name:** Ethiol**Group:** Organophosphate**Type:** Non-systemic insecticide with **contact action****Hazard Class (WHO):** Toxic and harmful II**Pre-Harvest Interval (PHI):** 15 days**Application Management:**

- During winter dormancy, spray trees to eliminate insect eggs, mites, and scales at a rate of 1.5–2 ‰ (mL per liter of water) along with dormant oil.
- Phytotoxicity is **observed only on some apple varieties**, such as McIntosh.

Compatibility and Mixing:

- Do not mix with alkaline pesticides, as this reduces efficacy.

Target Crops, Pests, and Application Rates:

Crop	Pest	Application Rate
Temperate fruit trees and citrus	Scale insects	1.5–2 ‰ with dormant oil, applied as foliar spray

Название продукта: Этион 47% (ЭК, эмульгируемый концентрат) **Тип:** Несистемный инсектицид с контактным действием**اسم المنتج:** إيثيون 47% W/W مركز قابل للاستحلاب (النوع: مبيد حشري غير نظامي ذو تأثير تلامسي)

Product Name: Acetamiprid 20% SP (Water-Soluble Powder)

Trade Name: Mospilan

Group: Neonicotinoid

Type: Systemic insecticide with **contact and ingestion action**, acting via **nicotinic acetylcholine receptors**

Hazard Class (WHO): Toxic and harmful II

Pre-Harvest Interval (PHI):

- Apple: 14 days
- Pistachio: 28–42 days

Application Management:

- **Effectively controls insects resistant** to organophosphates, carbamates, and synthetic pyrethroids.
- Effective against **aphids, thrips, and lepidopteran pests**.
- **Fast-acting** with **low mammalian toxicity**.
- Acts by inducing **dose-dependent depolarization** in the insect's postsynaptic neurons, preventing further neural signaling, resulting in **paralysis**.
- **Phytotoxicity is minimal**; stable at **low pH**, compatible with most **fertilizers**, and can be mixed with **most insecticides and fungicides** (except alkaline compounds such as Bordeaux mixture).

Target Crops, Pests, and Application Rates:

Crop	Pest	Application Rate
Pistachio	Psylla	200–250 g per 1000 L water
Apple	Apple codling moth and spotted leaf miner	500 g per 1000 L water (first generation in mountainous regions)

Название продукта: Ацетамиприд 20% СП (водорастворимый порошок) **Тип:** Системный инсектицид с контактным и кишечным действием, воздействует на никотиновые ацетилхолиновые рецепторы

اسم المنتج: أسيتامپريد ۲۰% SP مسحوق قابل للذوبان في الماء. **النوع:** مبيد حشري نظامي ذو تأثير تلامسي وعن طريق الابتلاع. يعمل عبر مستقبلات الأسيتيل كولين النيكوتينية



Acetamiprid 20% SP

www.alborzbeh.sam.com

Pesticides



Imidacloprid 35% SC

info@alborzbehsam.com

Pesticides



Product Name: Imidacloprid 35% SC (Suspension Concentrate, Water-Based)

Trade Name: Confidor

Group: Neonicotinoid

Type: Systemic insecticide with **contact and ingestion effect**

Hazard Class (WHO): Toxic and harmful II

Pre-Harvest Interval (PHI):

- Citrus: 21 days
- Cotton, Pistachio, Tobacco: 14 days

Application Management:

- Effective against **pests resistant to other insecticide groups**.
- Used primarily against **major plant pests**, especially **sap-sucking insects**, in **citrus, pistachio, fruit trees, and various crops**.
- **Soil moisture and optimal plant growth conditions** are essential for absorption and movement; uptake through the **roots is more effective**.
- Spray **twice at 10-day intervals** when **damage symptoms appear on summer buds of seedlings and young citrus trees (3–5 years old)**.

Compatibility and Mixing:

- At recommended doses, **well-tolerated by crops** with **no phytotoxicity** observed.
- **Compatible with other pesticides** and can be easily mixed.

Target Crops, Pests, and Application Rates:

Crop	Pest	Application Rate
Pistachio	Pistachio psylla	400 mL per 1000 L water
Cotton	Melon aphid	250 mL/ha
Tobacco	Aphid	250 mL/ha
Canola (Rapeseed)	Wax aphid	1 L/ha
Citrus	Leaf miner	35 mL insecticide + 300 mL oil per 100 L water, sprayed twice at 10-day intervals

Название продукта: Имидаклоприд 35% СК (суспензионный концентрат на водной основе) **Тип:** Системный инсектицид с контактным и кишечным действием

اسم المنتج: إيميداكلوبريد 35% SC مركز معلق قائم على الماء (النوع: مبيد حشري نظامي ذو تأثير تلامسي وعن طريق الابتلاع)



Product Name: Indoxacarb 15% SC (Suspension Concentrate, Water-Based)

Trade Name: Avaunt

Group: Oxadiazine

Type: Insecticide and Acaricide with **contact and ingestion effect**

Hazard Class (WHO): Toxic and harmful II

Pre-Harvest Interval (PHI):

- Tomato and cabbage: 1 day
- Other crops: 10–21 days

Application Management:

- Most effective against **larval stages** of lepidopteran pests such as: cotton bollworm, leaf feeders, potato tuberworm, leaf miners, codling moth, grape berry moth, citrus leaf miner, cabbage moth, etc., on crops including **cotton, sugar beet, maize, legumes, vegetables, fruit trees, grapes**, and more.
- **Optimal spraying time:** when pests are at the **first instar larval stage**.
- Indoxacarb also has **ovicide activity**: due to its **lipophilicity**, it penetrates egg membranes, and emerging larvae die shortly after feeding and contact.
- To **prevent resistance**, use **Indoxacarb in rotation** with a **pyrethroid or carbamate insecticide**.

Compatibility and Mixing:

No phytotoxicity or mixing issues reported; however, **small-scale testing before large-scale application is recommended**.

Target Crops, Pests, and Application Rates:

Crop	Pest	Application Rate
Cotton	Cotton bollworm	200–250 mL/ha (depending on infestation density)
Chickpea	Pod borer	200 mL/ha
Apple	Codling moth	450 mL/ha (more effective on first generation in mountainous regions)
Tomato	Fruit borer	250 mL/ha

Название продукта: Индосакارب 15% СК (суспензионный концентрат на водной основе) **Тип:** Инсектицид и акарицид с контактным и кишечным действием

اسم المنتج: إندوكساکارب ۱۵% SC (مركز معلق قائم على الماء، النوع: مبيد حشري ومبيد للقزاد ذو تأثير تلامسي وعن طريق الابتلاع)



Indoxacarb 15% SC

www.alborzbehsam.com

Pesticides



Product Name: Permethrin 25% EC (Emulsifiable Concentrate)

Trade Name: Ambush

Group: Pyrethroid

Type: Non-systemic insecticide with **contact and ingestion effect**

Hazard Class (WHO): Toxic and harmful II

Pre-Harvest Interval (PHI): Not reported

Application Management:

- Exhibits **repellent properties**, preventing pests from approaching treated plants.
- **Fast-acting and broad-spectrum**, effective against **Coleoptera, Lepidoptera, Diptera, bees, and sap-sucking insects** on crops including **tobacco, sugar beet, cotton, soybean, vegetables, pistachio, walnut, fig, grape, and stone and pome fruit trees**.
- For controlling **spotted leaf miner on fruit trees** during outbreak years, apply against **first or maximum second generation**, in a **single application**.
- For **Egyptian leafworm (*Prodenia*) on sugar beet** during outbreaks, spray as soon as the pest is observed.
- **Rapidly degrades** in water and soil.

Compatibility and Mixing:

- **Compatible** with most insecticides and fungicides, but **do not mix with calcium nitrate**.

Target Crops, Pests, and Application Rates:

Crop	Pest	Application Rate
Sugar Beet	Egyptian leafworm (<i>Prodenia</i>)	1 L/ha
Fruit Trees	Spotted leaf miner	0.5 L per 1000 L water (only during outbreak years, against first or maximum second generation, single application)

Название продукта: Перметрин 25% ЭК (эмульгируемый концентрат) **Тип:** Несистемный инсектицид с контактным и кишечным действием

اسم المنتج: بيرميثرين ٢٥ % EC **مركز قابل للاستحلاب (النوع):** مبيد حشري غير نظامي ذو تأثير تلامسي وعن طريق الابتلاع



Product Name: Profenofos 50% W/W (Emulsifiable Concentrate)

Trade Name: Curacron

Group: Organophosphate

Type: Non-systemic insecticide and acaricide with **contact, ingestion, and translaminar action**

Hazard Class (WHO): Toxic and harmful II

Pre-Harvest Interval (PHI): 14 days

Application Management:

- **Fast-acting and long-lasting**, targeting a **wide range of pests**.
- **Translaminar movement** allows penetration into plant tissues, controlling **leaf miners** residing inside the leaves.
- Effective against **cotton bollworm**, **Lepidoptera** pests, and **mites** on **cotton**, **maize**, **sugar beet**, **soybean**, **potato**, **vegetables**, and **tobacco**.
- Acts by **inhibiting acetylcholinesterase** in the insect nervous system.
- Can move from the **upper to the lower leaf surface**, effectively controlling pests that normally hide under leaves.
- May have **negative effects on cotton growth** if used excessively.

Target Crop, Pest, and Application Rate:

Crop	Pest	Application Rate
Cotton	Cotton bollworm	2 L/ha

Название продукта: Профенофос 50% (ЭК, эмульгируемый концентрат) **Тип:** Несистемный инсектицид и акарицид с контактным, кишечным и трансламинарным действием

اسم المنتج: بروفينوفوس 50% W/W مركز قابل للاستحلاب (النوع: مبيد حشري ومبيد للقراد غير نظامي ذو تأثير تلامسي، ابتلاعي وعبر الأوراق)



Profenofos 50% EC

www.alborzbehsam.com

Pesticides



Primicarb 50% WP

info@alborzbehsam.com

Pesticides



Product Name: Primicarb 50% WP (Wettable Powder)

Trade Name: Pirimor

Group: Carbamate

Type: Systemic and selective insecticide with **contact and fumigant action**

Hazard Class (WHO): Toxic and harmful II

Pre-Harvest Interval (PHI): 1–2 weeks depending on crop

Application Management:

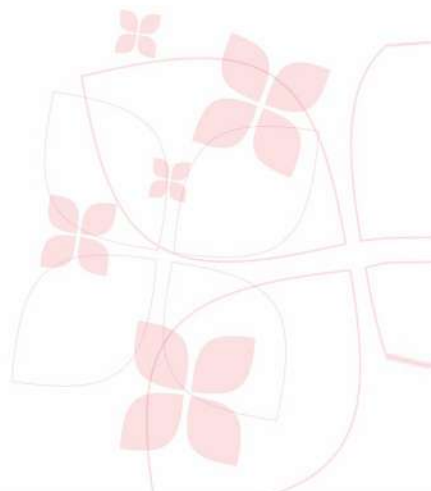
- **Neurotoxic insecticide** (acetylcholinesterase inhibitor) and **selective aphicide**, effective on aphids **resistant to organophosphates**.
- Absorbed via **roots** and translocated throughout the plant tissues.
- Controls **aphids** on tobacco, vegetables, cucurbits, rose, apple, beans, cabbage, wheat, barley, rye, pear, chickpea, potato, rapeseed, maize, leafy vegetables, root crops, fruit crops, ornamental greenhouse crops, stone fruits, and also **powdery aphids and thrips** in stone fruits.
- Maximum **two applications per crop**.

Target Crops, Pests, and Application Rates:

Crop	Pest	Application Rate
Tobacco, vegetables, cucurbits, rose	Aphids	0.5–0.7 kg/ha
Vegetables and cucurbits	Thrips	0.5–1 kg/ha

Название продукта: Примикарб 50% ВП (смачивающийся порошок) **Тип:** Системный и селективный инсектицид с контактным и фумигантным действием

اسم المنتج: پريميكارب ۵۰% WP مسحوق قابل للبلل (النوع: مييد حشري نظامي وانتقائي ذو تأثير تلامسي وتأثير تبخيري)



Product Name: Deltamethrin 2.5% EC (Emulsifiable Concentrate)

Trade Name: Decis

Group: Pyrethroid

Type: Non-systemic insecticide with **fast contact and ingestion action**

Hazard Class (WHO): Toxic and harmful II

Pre-Harvest Interval (PHI):

- Wheat and sugar beet: 30 days
- Fruits: 7 days

Application Management:

- **Broad-spectrum and fast-acting** insecticide.
- Spray **at the first sign of pest damage**; repeat applications **10–14 days apart** as needed. Timing, rate, and mixing depend on **crop and target pest**.
- **Reduces blood cholinesterase** levels.
- Used for controlling **aphids, leafhoppers, locusts, Lepidopteran larvae, weevils, mites, thrips, scale insects, whiteflies, psylla**, and other pests on **wheat, cotton, vegetables, alfalfa and clover, soybean, sugar beet, temperate fruit trees, and citrus**.
- Short residual activity, especially relevant for **vegetables**.

Target Crops, Pests, and Application Rates:

Crop	Pest	Application Rate
Sugar Beet	Egyptian leafworm (<i>Prodenia</i>)	1 L/ha
Fruit Trees	Spotted leaf miner	0.5 L per 1000 L water
Wheat	Wheat bug nymphs	0.2 L/ha
Wheat	Adult wheat bug	45 mL/ha
Cotton	Cotton bollworm	0.5 L/ha

Название продукта: Дельтаметрин 2,5% ЭК (эмульгируемый концентрат) **Тип:** Несистемный инсектицид с быстрым контактным и кишечным действием

اسم المنتج: دلتامثرين ۲.۵ %مركز قابل للاستحلاب (النوع: مبيد حشري غير نظامي ذو تأثير تلامسي سريع وعن طريق الابتلاع)



Deltamethrin 2.5% EC

www.alborzbehsam.com

Pesticides



Pyriproxyfen 10% EC

info@alborzbehsam.com

Pesticides



Product Name: Pyriproxyfen 10% W/V (Emulsifiable Concentrate)

Trade Name: Admiral

Group: Juvenile Hormone Mimic (Insect Growth Regulator, IGR)

Type: Hormonal insecticide and insect growth regulator, acting by contact and ingestion

Hazard Class (WHO): U (Generally considered non-hazardous under normal conditions)

Pre-Harvest Interval (PHI):

- Cotton: 28 days
- Citrus: 7 days

Application Management:

- **Toxic to aquatic organisms;** avoid use near mulberry trees and silkworm-rearing areas.
- Prevents **larval development into pupae and adults**, thereby stopping reproduction.
- Only effective on **larvae and nymphs**; has **no effect on adults**.
- Apply **as soon as early larval stages are observed**, before adults appear. If application is delayed, **mix with another suitable insecticide**.

Target Crops, Pests, and Application Rates:

Crop	Pest	Application Rate
Citrus	Brown scale (<i>Coccus spp.</i>)	500–750 mL per 1000 L water
Cotton	Whitefly	750 mL/ha

Название продукта: Пирипроксифен 10% В/В (эмульгируемый концентрат) **Тип:** Гормональный инсектицид и регулятор роста насекомых, действует контактно и через проглатывание.

اسم المنتج: بيروبروكسيفين 10% W/V (مركز قابل للاستحلاب) **النوع:** مبيد حشري هرموني ومنظم نمو الحشرات، يعمل عن طريق التلامس والابتلاع



Product Name: Trichlorfon 80% WP (Water-Soluble Powder)

Trade Name: Dipterex

Group: Organophosphate

WHO Toxicity Class: II – Toxic and Harmful

Type: Non-systemic insecticide with contact and stomach (ingestive) action

Pre-Harvest Interval (PHI): 7 days

Application Management:

- Trichlorfon is a fast-acting insecticide with a quick knockdown effect.
- It has a broad spectrum of activity, effective against various insect pests such as caterpillars, beetles, bugs, and flies.
- It is also used to control domestic pests such as flies, cockroaches, fleas, bedbugs, ants, and mosquitoes in homes and livestock facilities, as well as external parasites on domestic animals and aquatic parasites in fish farms.

Target Crops and Application Rates:

Crop	Pest	Application Rate
Wheat & Barley	Sunn pest (<i>Eurygaster integriceps</i>)	1–2 kg/ha
Rice	Seedling fly	1–2 kg/ha
Sunflower & Soybean	Seed pod borer	1–2 kg/ha
Onion & Melon	Fruit fly	1–2 kg/ha
Cabbage	Cabbage white butterfly	1–2 kg/ha
Vegetables & Cucurbits	Cotton bollworm	1–2 kg/ha
Chickpea	<i>Caradrina</i> spp.	1–2 kg/ha
Elm	Bark beetle	250–300 g Trichlorfon + 2.5 L kerosene + 250 g soap per 100 L water

Note:

For field crops without specified rates in the table, dosage should be determined according to pest pressure, crop growth stage, and local agricultural guidelines.

Название продукта: Трихлорфон 80% ВП (водорастворимый порошок) Тип: Несистемный инсектицид с контактным и желудочным (кишечным) действием.

اسم المنتج: تريكلورفون 80% WP (مسحوق قابل للذوبان في الماء) النوع: مبيد حشري غير نظامي ذو تأثير تلامسي وتأثير معدي (عن طريق الابتلاع)



Trichlorfon 80% WP

www.alborzbehsam.com

Pesticides



Dichlorvos 50% EC

info@alborzbehsam.com

Pesticides



Product Name: Dichlorvos 50% EC (Emulsifiable Concentrate)

Trade Name: DDVP / Dedvap

Group: Organophosphate

WHO Toxicity Class: II – Toxic and Harmful

Type: Insecticide with **contact, stomach (ingestive), fumigant, and penetrative action**

Pre-Harvest Interval (PHI): 3 days

Application Management:

- Dichlorvos **inhibits blood cholinesterase** activity.
- It has a **strong knockdown (rapid action) effect** with a **short residual protection period (2–5 days)**.
- Due to its **high vapor pressure**, residues dissipate within **three days**, making it suitable for use on **early-harvest and greenhouse crops**.
- Despite being **non-systemic**, Dichlorvos is **highly effective against sucking insects**, as well as **caterpillars, beetles, and flies** (especially in **mushroom cultivation**).
- Best results are achieved when the **ambient temperature is between 15–25°C** and the **target area is relatively dry**.
- The insecticidal effect is **mainly through vapor action** and **does not affect insect eggs**.

Compatibility and Mixing Guidelines:

- At the recommended dosage, **Dichlorvos is generally safe for crops**, except **chrysanthemums**, which may show **phytotoxicity (leaf burn)** under certain conditions.
- **Do not apply other insecticides**, especially **sulfur-based formulations**, **one day before or after** Dichlorvos application.
- **Avoid mixing with alkaline compounds, quinomethionate (Morestan), or polysulfides.**
- **Do not use as a domestic insecticide.**
- When spraying **cucumbers**, **avoid direct application** on the growing plants — apply **between crop rows** instead.

Target Crops and Application Rates:

Crop / Environment	Pest	Application Rate
Greenhouses	Aphids, Thrips, Whiteflies	8 cc per 100 m ³ of space
Fruit Trees	Aphids, Thrips, Whiteflies	1–2 L per 1000 L water
Tea and Cucurbits	Aphids, Thrips, Whiteflies	0.5–1 L per hectare
Vegetables and Melons	Aphids, Thrips, Whiteflies	1.5–2 L per 1000 L water

Notes:

- Avoid application under high humidity or extreme temperatures.
- Follow protective measures during mixing and spraying due to acute toxicity risk.
- Dichlorvos should only be used **on the listed crops and pests** under the **supervision of agricultural specialists**.

Название продукта: Дихлофос 50% ЭК (эмульгируемый концентрат) **Тип:** Инсектицид с контактным, желудочным, фумигантным и проникающим действием

اسم المنتج: ديكلورفوس ٥٠% EC **النوع:** مبيد حشري ذو تأثير تلامسي، معدي، تبخيري وفناذي



Product name: Dimethoate 40% EC (Emulsifiable Concentrate)

Trade Name: Dimethoate

Group: Organophosphate

WHO Toxicity Class: II – Toxic and Harmful

Type: Systemic insecticide with contact and ingestive (stomach) action

Pre-Harvest Interval (PHI):

The interval between the last spraying and harvest varies depending on the crop and climatic conditions — typically 2 to 3 weeks.

Application Management:

- Dimethoate is an **acetylcholinesterase inhibitor**, producing a **rapid knockdown effect** and maintaining **systemic activity for up to 14 days**.
- It is used primarily **at the first appearance of pests** and is effective against a **wide spectrum of insects**, including **aphids, scales, dipterans (flies), caterpillars, beetles, and mites**.
- It is recommended for crops such as **cereals, cotton, grapes, sugar beet, coffee, potatoes, tobacco, vegetables, lawns, tea, olives, and various fruit trees and citrus**.

Compatibility and Mixing Guidelines:

- Avoid use on **stone fruit trees (e.g., peach, plum, apricot)**.
- When applied according to recommendations, **phytotoxicity (plant injury)** is unlikely; however, certain varieties of **lemon, peach, fig, olive, tomato, bean, and cotton** are sensitive to Dimethoate.
- It may cause **russetting (roughening or browning)** on **Red Delicious and Golden Delicious apples** and **ornamental plants**.
- Compatible** with most commonly used **insecticides and acaricides**.

Target Crops and Application Rates:

Crop	Pest	Application Rate	Application Method
Cereals	Common green aphid	1 L/ha	Foliar spray
Cotton	Thrips	1 L/ha	Foliar spray
Sugar beet	Leafhopper (vector of curly top virus)	1 L/ha	Foliar spray
Alfalfa	Stem nematode	1 L/ha	Foliar spray
Temperate fruit trees	Scale insects	1 L per 1000 L water	Foliar spray
Soybean	Aphids, thrips, and other sucking insects	1 L per 1000 L water	Foliar spray

Notes:

- Avoid application during high temperatures or drought stress.
- Do not mix or apply with **alkaline pesticides**.
- Follow safety measures to prevent exposure, as organophosphates are **toxic to humans and beneficial insects**.

Название продукта: Диметоат 40% ЭК (эмульгируемый концентрат) Тип: Системный инсектицид с контактным и желудочным действием

اسم المنتج: ديميثويت ٤٠% EC مركّز قابل للاستحلاب (النوع: مبيد حشري نظامي ذو تأثير تلامسي ومعدّي (عن طريق الابتلاع)



Dimethoate 40% EC

www.alborzbehsam.com

Pesticides



Cypermethrin 40% EC

info@alborzbehsam.com

Pesticides



Product Name: Cypermethrin 40% EC (Emulsifiable Concentrate)

Trade Name: Ripcord

Group: Pyrethroid

WHO Toxicity Class: II – Toxic and Harmful

Type: Non-systemic insecticide with contact and ingestive (stomach) action; also exhibits anti-feeding properties

Pre-Harvest Interval (PHI):

- Apple and Cotton: **21 days**

Application Management:

- Cypermethrin acts by **interfering with sodium channels** in the insect's nerve cells, thereby disrupting **nerve impulse transmission**.
- Its effect is **primarily contact-based**, and efficacy depends on the **thoroughness of spray coverage**.
- It provides **fast and persistent control**, highly effective against **larval and adult stages of Lepidoptera (moths)**.
- Protects the **aerial parts of plants** for several weeks, covering the plant's vulnerable growth stages.
- The active ingredient penetrates plant tissues, enabling control of **leaf miners and other internal feeders**.
- In **field crops**, repeat spraying is recommended every **10–14 days**. For **whiteflies and greenhouse pests**, intervals may be shorter.
- In **cereals**, apply in autumn for control of **cereal aphids**, and in spring or summer for **ear aphids**.
- For **flea beetles, cabbage butterflies, and cabbage aphids**, spraying should begin upon the **first signs of infestation**, with repeat treatments as needed.

Compatibility and Mixing:

- Compatible with most **insecticides and fungicides**, except **alkaline compounds** such as **Bordeaux mixture**.

Target Crops and Application Rates:

Crop	Pest	Application Rate	Method
Apple	Codling moth (<i>Cydia pomonella</i>)	75 cc per 1000 L water	Foliar spray
Cotton	Cotton aphid (<i>Aphis gossypii</i>)	175 cc per hectare	Foliar spray

Notes:

- Ensure uniform coverage for optimal contact efficacy.
- Avoid spraying during high wind or extreme heat.
- Rotate with insecticides from different chemical groups to prevent resistance development.

Название продукта: Циперметрин 40% ЭК (эмульгируемый концентрат) **Тип:** Несистемный инсектицид с контактным и желудочным действием; также обладает антипитательными свойствами

اسم المنتج: ساپيرمثرين ۴۰% EC مرکز قابل للاستحلاب (النوع: مبيد حشري غير نظامي ذو تأثير تلامسي ومعدى؛ كما يتميز بخصائص مضادة للتغذية)



Product Name: Fenpropathrin 10% EC (Emulsifiable Concentrate)

Trade Name: Danitol

Group: Pyrethroid

WHO Toxicity Class: II – Toxic and Harmful

Type: Insecticide and Acaricide with contact and ingestive action, also possessing repellent properties

Pre-Harvest Interval (PHI):

- For temperate fruit trees: 7–10 days

Application Management:

- Fenpropathrin has a **rapid knockdown effect**, providing immediate action against pests.
- Its **repellent activity** prevents feeding in adult mites, disrupts vital functions, and reduces egg laying.
- It is effective against **mobile stages of various mites** (except *Eriophyid mites*) and a wide range of insects such as **whiteflies, leaf miners, leaf-feeding and stem-boring insects, aphids, and psyllids**.
- Applicable to **pome fruits, citrus, grapes, vegetables, cucurbits, cotton, greenhouse, and ornamental plants**.
- For **grapevines**, the last application should be made **14 days after flowering**.

Target Crops and Application Rates:

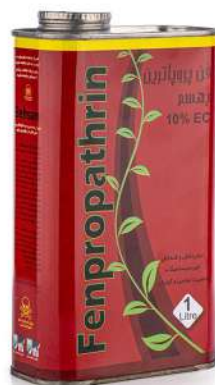
Crop	Pest	Application Rate	Method
Temperate Fruit Trees	European Red Mite (<i>Panonychus ulmi</i>)	2 liters per 1000 liters of water	Foliar spray

Notes:

- Avoid spraying during peak pollination to protect beneficial insects.
- Rotate with acaricides/insecticides of different chemical groups to prevent resistance.
- Ensure thorough coverage of foliage for optimal contact effect.

Название продукта: Фенпропатрин 10% ЭК (эмульгируемый концентрат) Тип: Инсектицид и акарицид с контактным и желудочным действием, также обладает отпугивающими свойствами

اسم المنتج: فينبروباترين 10% EC مركز قابل للاستحلاب (النوع: مبيد حشري ومبيد للقراد ذو تأثير تلامسي ومعدى، ويتميز أيضاً بخصائص طاردة)



Fenpropathrin 10% EC

www.alborzbehamsam.com

Pesticides



Fipronil 0.2% G

info@alborzbehsam.com

Pesticides



Product Name: Fipronil 0.2% G (Granule)

Trade Name: Regent

Group: Phenylpyrazole

WHO Toxicity Class: II – Toxic and Harmful

Type: Relatively systemic insecticide with contact and ingestive action

Pre-Harvest Interval (PHI):

- No specific PHI reported for this product.

Application Management:

- Fipronil is effective against a **wide spectrum of major and destructive insect pests**, exhibiting a **rapid knockdown effect** that causes immediate paralysis and death.
- Its **moderate systemic action** allows its use both for **seed treatment** and **soil application**.
- It is particularly effective against insect populations **resistant to organophosphates, carbamates, pyrethroids, and cyclodienes**.
- Provides **long-lasting residual control** when sprayed on foliage.
- Can be used **both in nurseries and in main fields**.
- In soil, fipronil **degrades quickly into non-toxic byproducts**, reducing the risk of water contamination and contributing to **environmental safety**.
- Due to its **low required dosage** and **reduced number of applications**, it minimizes overall pesticide load.

Target Crop and Application Rate:

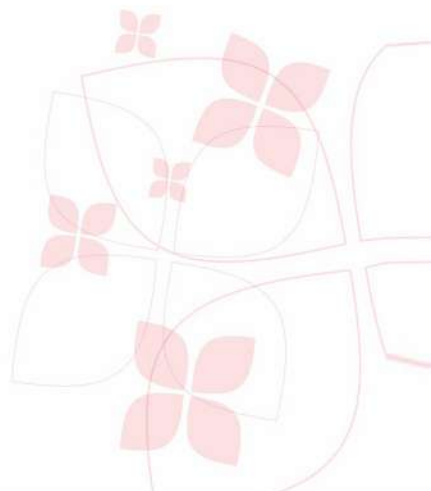
Crop	Pest	Application Rate	Application Method
Rice	Stem borer (<i>Scirpophaga incertulas</i>)	20 kg per hectare	Single granule application per season

Notes:

- Apply uniformly across the field for even pest control.
- Avoid application to waterlogged or highly saturated soil.
- Re-entry into treated fields should be avoided for at least 24 hours after application.
- Rotate with insecticides from different chemical groups to prevent resistance development.

Название продукта: Фипронил 0,2% Г (гранулы) **Тип:** Относительно системный инсектицид с контактным и желудочным действием

اسم المنتج: فایپرونیل ۰.۲ % G **النوع:** مبيد حشري شبه نظامي ذو تأثير تلامسي ومعدى



Product Name: Fenitrothion 50% EC (Emulsifiable Concentrate)

Trade Name: Sumithion

Group: Organophosphate

WHO Toxicity Class: II – Toxic and Harmful

Type: Non-systemic Insecticide/Acaricide with Contact and Ingestive Action

Pre-Harvest Interval (PHI):

- No official pre-harvest interval reported to date.

Application Management:

- Fenitrothion provides **moderate residual protection (10–15 days)** after application.
- It controls a **broad spectrum of chewing and sucking pests**, and also exhibits **acaricidal properties** (effective against mites).
- Commonly used to control **weevils, thrips, locusts, caterpillars, beetles, flies**, and **sucking insects** such as aphids, psyllids, scales, and bugs.
- Applied to a wide range of crops including **wheat, barley, rice, vegetables, fruit trees, grapes, pistachios, sugarcane, alfalfa, tobacco, cotton, citrus, pastures, and forests** in various countries.
- Acts as a **cholinesterase inhibitor**, reducing acetylcholinesterase activity in insects and causing paralysis and death.

Target Crops and Application Rates:

Crop	Pest	Application Rate	Application Method
Wheat / Grains	Sunn pest (<i>Eurygaster integriceps</i>)	1.2 L/ha	Foliar spray
Wheat / Grains	Locusts	1.5 L/ha	Foliar spray
Wheat / Grains	Aphids	1.5 L/ha	Foliar spray
Rice	Stem borer	1.5 L/ha	Foliar spray
Eggplant / Alfalfa	Locusts	1.5 L/ha	Foliar spray
Sugarcane	Asian locust	1.5 L/ha	Foliar spray
Pistachio	Bug vector of <i>Nematospora</i> and branch borer beetles	1–1.5 L per 1000 L water	Foliar spray

Compatibility and Safety Notes:

- Avoid repeated applications to prevent resistance.
- Do not mix with strongly alkaline compounds.
- Toxic to fish and bees — avoid application near water sources or during blooming periods.
- Re-entry to treated areas should be avoided for at least 24 hours after spraying.

Название продукта: Фениротрион 50% ЭК (эмульгируемый концентрат) Тип: Несистемный инсектицид/акарицид с контактным и желудочным действием

اسم المنتج: فینیتروتیون ۵۰% EC مرکز قابل للاستحلاب النوع: مبيد حشري/مبيد للقراد غير نظامي ذو تأثير تلامسي ومعدى



Fenitrothion 50% EC

www.alborzbehamsam.com

Pesticides



Product Name: Fenvalerate 20% EC (Emulsifiable Concentrate)

Trade Name: Somicidin

Group: Pyrethroid

WHO Toxicity Class: II – Toxic and Harmful

Type: Non-Systemic Insecticide/Acaricide with Contact and Ingestive Action

Pre-Harvest Interval (PHI):

- 14 days between the last spraying and harvest.

Application Management:

- Fenvalerate exhibits a **rapid knockdown effect** on target insects.
- It was one of the **first synthetic pyrethroids** developed for agricultural use due to its **high insecticidal potency** and **resistance to degradation by sunlight (UV stability)**.
- Effective against a **broad spectrum of pests**, especially those resistant to **organochlorine, organophosphate, and carbamate insecticides**.
- Used to control **boring, sucking, and chewing insects** from various orders on crops such as **cotton, oilseeds, vegetables, cucurbits, nut trees, grapes, olives, sunflower, alfalfa, cereals, maize, sorghum, potatoes, sugar beet, peanuts, soybeans, tobacco, sugarcane, ornamentals, and forest/pasture plants**.
- Repeat spraying** may be required in cases of **severe infestation** for optimal control.

Target Crops and Application Rates:

Crop	Pest	Application Rate	Application Method
Sugar Beet	<i>Perodina</i> (Noctuid moth larvae)	1 L/ha	Foliar spray
Fruit Trees	Leaf miner (<i>Leucoptera spp.</i>)	0.5 L per 1000 L water	Foliar spray

Additional Notes:

- Acts primarily by disrupting the insect's nervous system, leading to paralysis and death.
- Avoid spraying during bloom to protect pollinators.
- Highly toxic to fish and aquatic organisms—do not contaminate water sources.
- Compatible with most insecticides and fungicides, except alkaline formulations.

Название продукта: Фенвалерат 20% ЭК (эмульгируемый концентрат) **Тип:** Несистемный инсектицид/акарицид с контактным и желудочным действием

اسم المنتج: فينفاليرات ٢٠% EC (مركز قابل للاستحلاب) **النوع:** مبيد حشري/مبيد للقراد غير نظامي ذو تأثير تلامسي ومعدى



Product Name: Malathion 57% EC (Emulsifiable Concentrate)

Trade Name: Malathion

Group: Organophosphate

WHO Toxicity Class: III – Toxic and Harmful

Type: Non-Systemic Insecticide/Acaricide with Contact, Ingestive & Respiratory Action

Pre-Harvest Interval (PHI): 10 days

Compatibility:

- Incompatible with alkaline compounds; do not mix with them.

Application Management:

- Malathion is a broad-spectrum insecticide and acaricide effective against a wide range of pests.
- It is particularly effective in reducing mite populations.
- Spraying should begin at the first sign of infestation, and may be repeated every 7–14 days if necessary.
- Reduces blood cholinesterase activity (typical of organophosphates).
- Certain apple, pear, and grape varieties may show phytotoxic sensitivity to Malathion—apply with caution.

Target Crops and Application Rates:

Crop	Pest	Dosage	Application Method
Cereals	Locusts	0.7–1.5 L/ha	Foliar spray
Temperate Fruit Trees	Leafrollers, Green Aphids, Woolly Aphids	1–2 L per 1000 L water	Foliar spray
Date Palm	Fruit Borer, Scale Insects, Leafhoppers	2.5 L per 1000 L water	Foliar spray
Wheat	Common Aphid	2.5 L/ha	Foliar spray
Alfalfa	Alfalfa Weevil	3 L/ha	Foliar spray
Olive	Psylla	2.5 L per 1000 L water	Foliar spray
Citrus	Scale Insects, Aphids	2–2.5 L per 1000 L water	Foliar spray
Rose & Pine	Aphids	2 L per 1000 L water	Foliar spray
Tea	Mealybug	2 L per 1000 L water	Foliar spray
Melons & Cucurbits	Flies, Whiteflies	1–1.5 L per 1000 L water	Foliar spray
Sugar Beet	Beet Fly	1–2 L/ha	Foliar spray
Cherry	Fruit Fly	1–2 L per 1000 L water	Foliar spray
Onion	Thrips	2 L per 1000 L water	Foliar spray

Notes:

- Avoid spraying during high temperatures to prevent phytotoxicity.
- Toxic to fish and beneficial insects—apply with care near aquatic areas.
- Store in a cool, dry, well-ventilated area away from alkaline substances.

Название продукта: Малаатион 57% ЭК (эмульгируемый концентрат) Тип: Несистемный инсектицид/акарицид с контактным, желудочным и дыхательным действием

اسم المنتج: مالاثيون 57% EC مركز قابل للاستحلاب (النوع: مبيد حشري/مبيد للقراد غير نظامي ذو تأثير تلامسي، معدي وتنفسي)



Malathion 57% EC

www.alborzbehsam.com

Pesticides



Product Name: Tebufenozide 20% SC (Suspension Concentrate)

Trade Name: Mimic

Group: Diacylhydrazine

WHO Toxicity Class: U – Unlikely to Present Acute Hazard Under Normal Use

Type: Hormone-Mimetic Insecticide, Active Primarily by Ingestion with Some Contact and Ovicidal Activity

Pre-Harvest Interval (PHI): 7 days (for chickpea)

Application Management:

- Tebufenozide is a **molting hormone agonist** that mimics the natural **ecdysone hormone**, disrupting the molting process in larvae of Lepidopteran species.
- It is most effective when applied **during the early larval stages** or at the **onset of larval emergence**.
- Causes **premature molting** and **incomplete larval development**, leading to death before reaching the pupal stage.
- Effective against a wide range of **Lepidopteran pests**, including: *Cotton bollworm (Helicoverpa armigera)*, *Caradrina*, *Chickpea pod borer*, *Stem borers*, *Egyptian cotton leafworm*, *Codling moth (Cydia pomonella)*, and *Grape cluster moth (Lobesia botrana)*.

Target Crops and Application Rates:

Crop	Pest	Dosage	Application Method
Chickpea	Cutworm (<i>Agrotis spp.</i>)	0.7 L/ha	Foliar spray
Rice	Stem borer (<i>Scirpophaga spp.</i>)	1 L/ha	Foliar spray

Notes:

- Apply at the **early larval stage** for maximum effectiveness.
- Selectivity:** Safe to most beneficial insects and natural predators.
- Compatible with most insecticides and fungicides **except strong alkaline compounds**.
- Low toxicity to mammals, birds, and fish under normal use.

Название продукта: Тебуфенозид 20% СК (суспензионный концентрат) **Тип:** Гормоноподобный инсектицид, активный преимущественно при проглатывании, с некоторым контактным и овицидным действием

اسم المنتج: تيبوفينوزيد 20% SC (مركز معلق) **النوع:** مبيد حشري مقلد للهرمونات، يعمل بشكل أساسي عن طريق الابتلاع مع بعض التأثير التلامسي وتأثير قاتل للبيض



Product Name: Hexaflumuron 10% EC (Consult)

Type: Systemic Insect Growth Regulator, Active by Ingestion
Group: Benzoylurea

Pre-Harvest Interval (PHI): 29 days (for pistachio)

Application Management:

- Hexaflumuron is an **ovicide and larvicide** that acts primarily via ingestion and works gradually. It is most effective on immature stages such as early-instar larvae and nymphs.
- It affects all the life stages of various insect species. Its **primary mode of action** is **inhibiting larval molting**, causing death when insects fail to molt.
- Hexaflumuron also **reduces adult mating and oviposition**. Timely application is crucial to maximize its ovicidal effect, ideally **at the appearance of the first eggs**. Initial and timely spraying reduces crop damage significantly.
- Highly toxic to **aquatic microorganisms and honeybees**.

Compatibility and Mixing:

- Effective mainly against **Lepidoptera, Coleoptera, Diptera**, and some other larvae.
- Limited effect on sucking insects, except **pistachio psylla, pear psylla, and whiteflies**.

Target Crops and Application Rates:

Crop	Pest	Dosage	Notes
Pistachio	Psylla	0.5–0.7 L per 1000 L water	Foliar spray
Citrus	Leaf miner	25 mL + 300 mL oil per 100 L water	Spraying in nursery on young 3-year-old trees, two applications 10 days apart
Pistachio	Wood borer	1 L per 1000 L water + 0.5% oil	Foliar spray

Название продукта: Гексафлумурон 10% ЭК (Консалт) Тип: Системный регулятор роста насекомых, активен при проглатывании

اسم المنتج: هيكسافلومورون 10% EC (كونسلت) النوع: منظم نمو الحشرات نظامي، يعمل عن طريق الابتلاع



Hexaflumuron 10% EC

www.alborzbehamsam.com

Pesticides



Product Name: Lambda-cyhalothrin 5% SC (Heflambda)

Group: Pyrethroid

Type: Non-systemic insecticide with contact and ingestive action; repellent and residual effect

WHO Hazard Class: Toxic

Pre-Harvest Interval (PHI): 35 days (wheat)

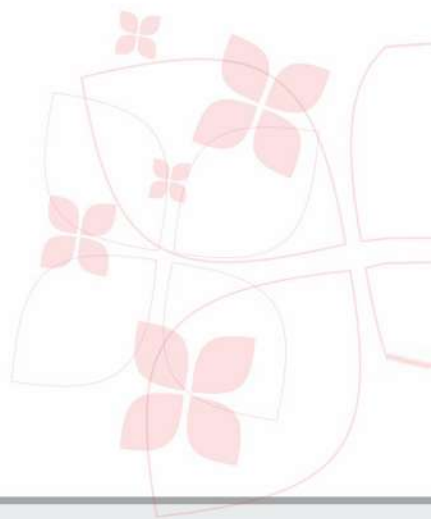
Application Management:

- Strong knockdown effect; penetrates insect cuticle quickly, disrupting the nervous system, stopping feeding, affecting muscle activity, causing paralysis and death.
- Controls all life stages of wheat pests and also aphids, leaf-eating caterpillars, earworms, Colorado potato beetle larvae, and other pests.

Crop	Pest	Dosage
Wheat	Wheat bug	150 mL/ha (based on 300 L water, equivalent to 0.5‰)
Date palms	Soil termites	10‰

Название продукта: Лямбда-цигалотрин 0,5% СК (Хефламбда) **Тип:** Несистемный инсектицид с контактным и желудочным действием; обладает отпугивающим и остаточным эффектом

اسم المنتج: لامبدا-سايهاالوترين ٥.٥% SC هيفلامبدا **النوع:** مبيد حشري غير نظامي ذو تأثير تلامسي ومعدى؛ له تأثير طارد ويبقى طويلا الأمد



Product Name: Spinosad 24% SC

Group: Spinosyn

Type: Non-systemic insecticide with contact and ingestion action; paralyzes insects

WHO Hazard Class: III

PHI: Tomato 3 days, Grapes 14 days

Application Management:

- Effective at all insect stages (larvae, eggs, adults). Eggs must be sprayed directly; adults and larvae are controlled via contact with sprayed surfaces.

Crop	Pest	Dosage
Tomato	Fruit borer	120 mL/ha
Grapes	Cluster borer	0.15%

Название продукта: Спиносад (Спансер) Тип: Несистемный инсектицид с контактным и желудочным действием; вызывает паралич у насекомых

اسم المنتج: سبينوساد (سبانسر) النوع: مبيد حشري غير نظامي ذو تأثير تلامسي ومعدى؛ يسبب شلل للحشرات



Spinosad 24% SC

www.alborzbehamsam.com

Pesticides



Product Name: Emamectin benzoate 5.7% SG (Ploto)

Group: Avermectin

Type: Avermectin class insecticide for lepidopteran pests

WHO Hazard Class: II

PHI: Cabbage 7 days

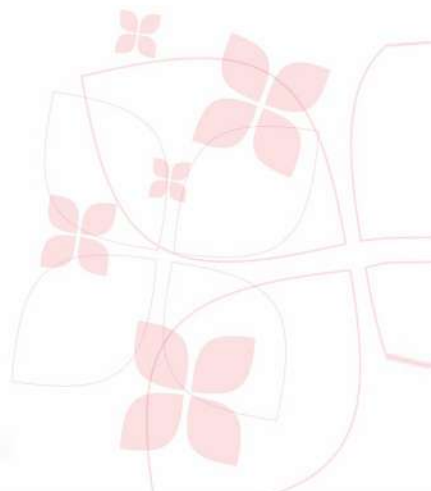
Application Management:

- Acts on GABA receptors in the nervous system, blocking neural signals and paralyzing target pests.

Crop	Pest	Dosage
Cabbage	Caterpillar	300 g/ha

Название продукта: Эмаектин бензоат 0,2% Г (Плотно) **Тип:** Инсектицид класса авермектинов против чешуекрылых вредителей

اسم المنتج: إمامكتين بنزوات ٥.٧% G (بلوتو) **النوع:** مبيد حشري من فئة الأفرمكتين لمكافحة آفات حشرية الأجنحة



Product Name: Emamectin benzoate + Lufenuron 45% WG (Proclaim Fit UV)

Group: Avermectin + Benzoylurea (IGR)

Type: Semi-systemic insecticide with contact and ingestion action

WHO Hazard Class: II

PHI: Cabbage 10 days

Application Management:

- Emamectin benzoate blocks GABA receptor signals causing paralysis.
- Lufenuron prevents chitin biosynthesis, inhibiting insect growth.

Crop	Pest	Dosage
Cabbage	Caterpillar	150 g/ha

Название продукта: Эмамектин бензоат + Лufenuron 45% ВГ (Проклейм Фит UV) **Тип:** Полусистемный инсектицид с контактным и желудочным действием

اسم المنتج: ایمامکتین بنزوات + لوفینورون ۴۵ WG % پروکلایم فیت UV **النوع:** میید حشری شبه نظامی ذو تاثیر تلامسی ومعدی



Emamectin benzoate + Lufenuron 45% WG

www.alborzbeh.sam.com

Pesticides



Product Name: Lambda-cyhalothrin + Thiamethoxam 25% SC

Trade Name: Theatrin

Chemical Group: Neonicotinoid – Pyrethroid

Mode of Action:

- **Thiamethoxam** is a systemic insecticide with fast contact and stomach action.
- **Lambda-cyhalothrin** is a non-systemic insecticide with contact and stomach action, featuring repellency and residual activity that causes rapid insect death.

Hazard Classification: WHO Class II (Moderately hazardous)

Pre-Harvest Interval (PHI): Pistachio – 50 days

Application Management:

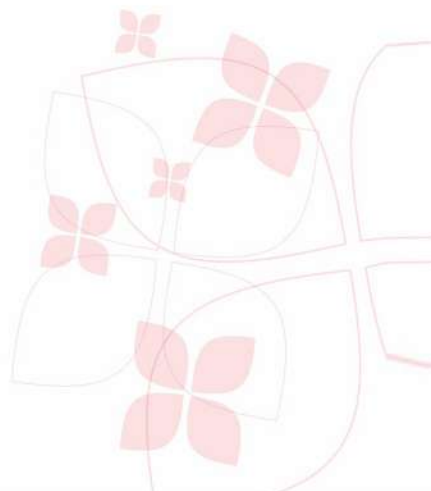
- Dangerous to honeybees and pollinators. Do not apply in areas with high floral activity or active pollinator presence.
- Spraying must be done after sunset.

Application Table:

Crop	Target Pest	Application Rate
Pistachio	Green Aphid	0.25 L per 1000 L water

Лямбда-цигалотрин + Тиаметоксам 25% СК (Тиатрин)

تیاترین) SC ۲۵% لامبدا-سایهالوترین + تیامیٹوکسام ۲۵



Product Name: Flonicamid 50% WG (Teppeki)

Group: Selective feeding blocker; systemic pyridine insecticide

Type: Anti-feedant; systemic with long-term control

WHO Hazard Class: II

PHI: Cucumber & Strawberry 1 day

Crop	Pest	Dosage
Cucumber	Greenhouse aphid	0.2‰ in greenhouse
Strawberry	Thrips	0.25‰ in greenhouse

Название продукта: Флониамид 50% ВГ (Тепеки) Тип: Антифидант; системный инсектицид с длительным контролем

اسم المنتج: فلوניكاميد ٥٠ WG (تبيبيكي) النوع: مضاد للتغذية؛ نظامي ذو تحكم طويل الأمد



Flonicamid 50% WG

www.alborzbehsam.com

Pesticides





Alpha - Cypermethrin 10% SC

info@alborzbehsam.com

Pesticides



Product Name: Alpha-Cypermethrin 10% SC

Trade Name: Ruby Chemical Group: Pyrethroid

Mode of Action: Contact and non-systemic insecticide that disrupts sodium ion flow through nerve cell channels, causing a knockdown effect.

Hazard Classification: WHO Class III (Slightly hazardous)

Pre-Harvest Interval (PHI): Not yet established

Application Management:

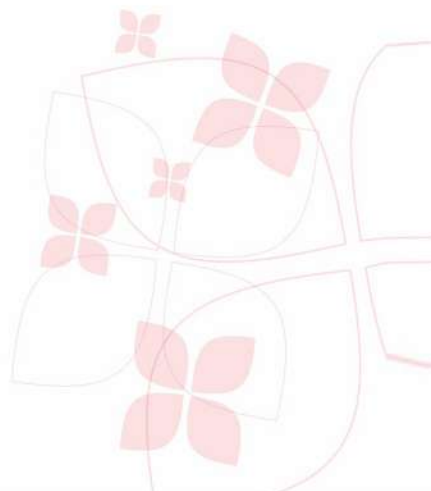
- Alpha-cypermethrin is 2–3 times more toxic than cypermethrin
- Compatible with most organophosphate insecticides

Application Table:

Target Pest	Crop	Application Rate
Cutworm	Sugar Beet	100 mL/ha

Альфа-циперметрин 10% СК (Руби)

(روبی) SC % الفـا-سایپرمترین ۱۰



Product Name: phosalane 35% EC

Group: Organophosphate

Type: Non-systemic insecticide with contact and ingestive action

WHO Hazard Class: II

Application Management:

Crop	Pest	Dosage
Pistachio	Psylla	2.5 L/ha
Apple	Weevil, Caterpillar	1.5‰
Pear	Psylla, Bee, Weevil	1.5‰
Plum	Caterpillar	1.5‰
Grapes	Cluster borer, Leafhopper	1.5‰
Quince	Caterpillar, Leafhopper	1.5‰
Pistachio	Wood-boring moth	1.5‰
Sugar beet	Beet flea beetle, Leaf-eating caterpillar (Caradrina)	2-3 L/ha
Soybean	Pod borer	2-3 L/ha
Sunflower	Leaf-eating caterpillar	2-3 L/ha
Alfalfa	Weevil	2-3 L/ha
Corn	Leaf-eating caterpillar, Virus vectors	2-3 L/ha
Potato	Colorado potato beetle	2-3 L/ha

Название продукта: Фозалан ЭК 35% Тип: Несистемный инсектицид с контактным и желудочным действием

اسم المنتج: فوسالان EC 35% النوع: مبيد حشري غير نظامي ذو تأثير تلامسي ومعدى



phosalane 35% EC

www.alborzbehamsam.com

Pesticides



Cartap Hydrochloride 4% GR

info@alborzbehamsam.com

Pesticides



Product Name: Cartap Hydrochloride 4% GR

Commercial Name: Padan

Group: Nereistoxin analogue

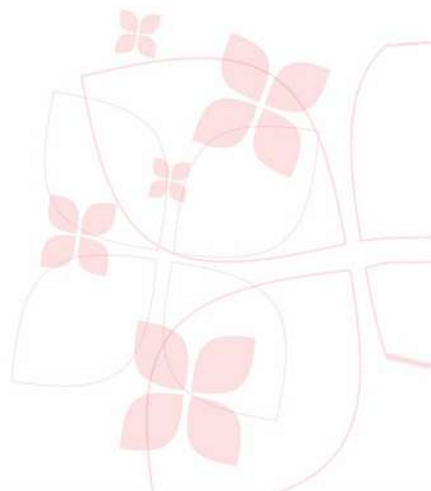
Type: Systemic insecticide with contact and ingestive action; anti-feedant

WHO Hazard Class: II

Crop	Pest	Dosage
Rice	Stem borer	30- 40 kg/ha as granules

Название продукта: Картап гидрохлорид Тип: Системный инсектицид с контактным и желудочным действием; антифидант

اسم المنتج: كارتاب هيدروكلوريد النوع: مبيد حشري نظامي ذو تأثير تلامسي ومعدى؛ مضاد للتغذية



Product Name: Alpha-Cypermethrin 10% EC

Trade Name: Triton **Chemical Group:** Pyrethroid

Mode of Action: Contact and non-systemic insecticide that disrupts sodium ion flow through nerve cell channels, causing a knockdown effect.

Hazard Classification: WHO Class III (Slightly hazardous)

Pre-Harvest Interval (PHI): Not yet established

Application Management:

- Alpha-cypermethrin is 2–3 times more toxic than cypermethrin
- Compatible with most organophosphate insecticides

Application Table:

Target Pest	Crop	Application Rate
Cutworm	Sugar Beet	100 mL/ha

Альфа-циперметрин 10% ЭК (Тритон)

(تريتون) EC %آلفا-سایپر مثرین ۱۰



Alpha - Cypermethrin 10% EC

www.alborzbehsam.com

Pesticides



Product Name: Abamectin 2% SC

Type: nematicide

Trade Name: Trevigo

Group: Avermectin

Mode of Action: Trevigo is a potent nematicide with high efficacy in suppressing harmful plant-parasitic nematodes. Simultaneously, it supplies essential iron to the plant, playing a critical role in plant growth and development. This is especially vital for nematode-infected plants that suffer from iron uptake deficiency.

Hazard Classification: WHO: II

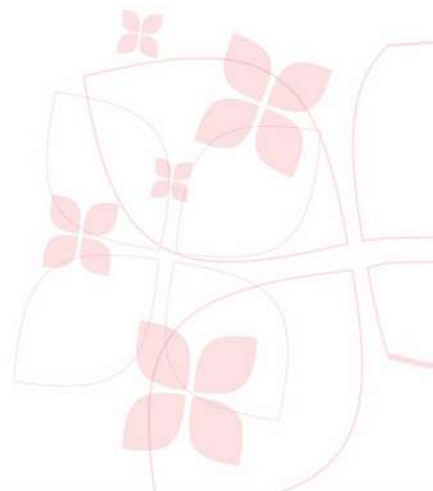
Pre-Harvest Interval: Not yet registered.

Application Management: This product contains iron chelate.

Crop	Target Pest	Application Rate
Cucumber	Root-knot nematode	In greenhouse: 8 liters per hectare at transplanting

Абамектин 2% SC

آبامکتین ۲ SC %



Product Name: Emamectin Benzoate + Indoxacarb 9% SC

Russian: Эмаектин бензоат + Индоксакарб 9% SC

Arabic: ٩% SC إيمامكتين بنزوات + إندوكساكارب

Type: insecticide

Russian: инсектицид

Arabic: مبيد حشري

- **Trade Name:** Indomect
- **Group:** Avermectin – Oxadiazine
- **Mode of Action:** Non-systemic insecticide with contact and ingestion activity. Penetrates leaf tissue via translaminar movement.
- **Hazard Classification:** WHO: III
- **Pre-Harvest Interval:** 7 days
- **Application Management:** Contains 1.5% W/V Emamectin Benzoate and 7.5% W/V Indoxacarb. Harmful to honeybees, quails, and fish.

Crop	Target Pest	Application Rate
Sugar beet	Cutworm	400 mL/ha at early pest formation, targeting 1st instar larvae



Emamectin Benzoate + Indoxacarb 9% SC

www.alborzbehamsam.com

Pesticides



Fipronil 5% SC

info@alborzbehsam.com

Pesticides

**Product Name:** Fipronil 5% SC

Russian: Фипронил 5% SC

Arabic: 5% فيپرونيل SC

Type: insecticide

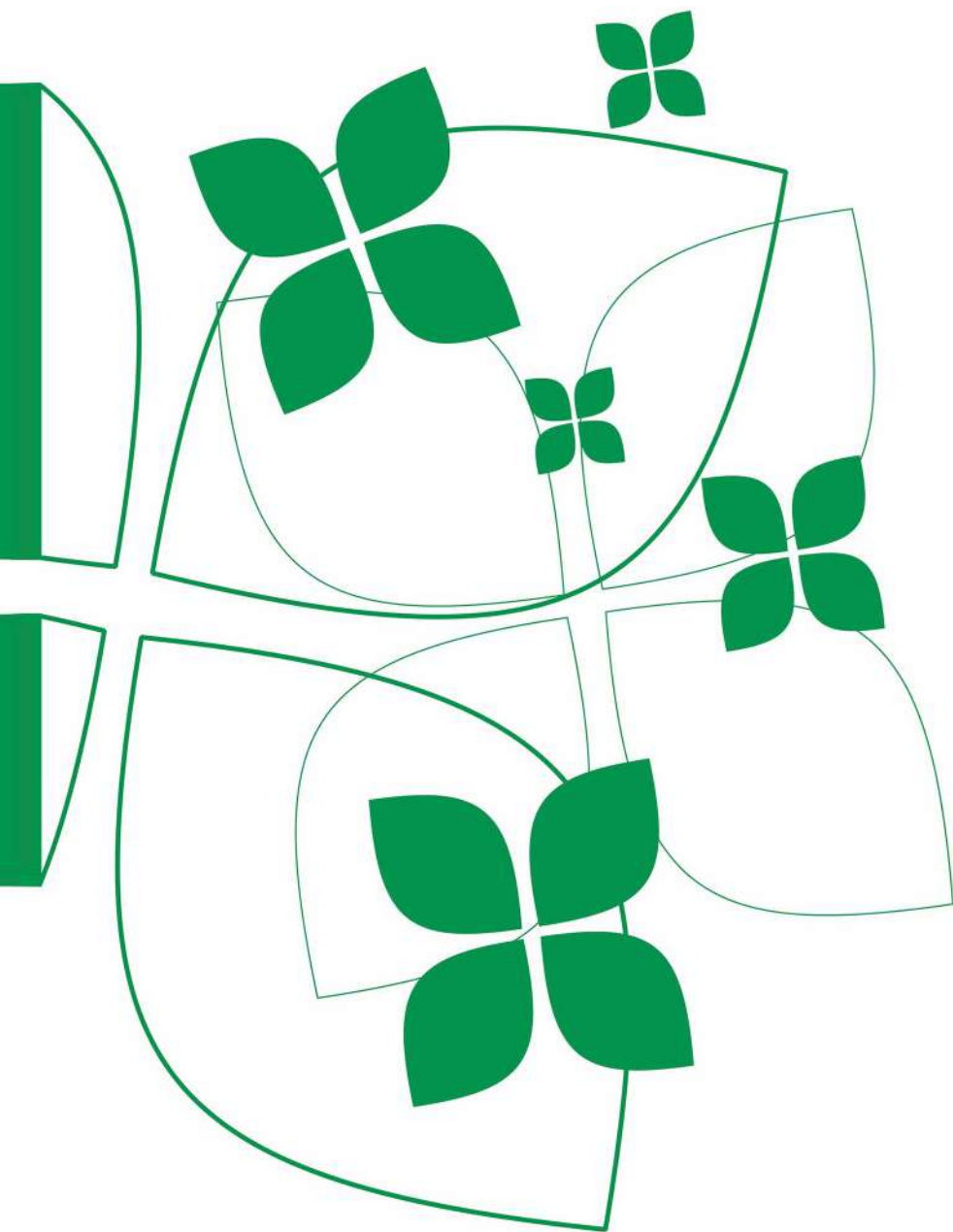
Russian: инсектицид

Arabic: مبيد حشري

- **Trade Name:** Chilokil
- **Group:** Phenylpyrazole
- **Mode of Action:** Broad-spectrum contact and ingestion insecticide with residual control.
- **Hazard Classification:** WHO: II
- **Pre-Harvest Interval:** Not registered
- **Application Management:** Effective against pests resistant to organophosphates, carbamates, pyrethroids, and cyclodienes.

Crop	Target Pest	Application Rate
Grape	Leafhopper	20 mL per plant
Rice	Stem borer	0.5–1 L/ha depending on pest density (2nd generation)
Cotton	Spiny bollworm	1 L/ha





Herbicides



Product Name: Acetochlor 76% EC

Trade Name: Surpas

Group: Chloroacetamide

Type: Selective, systemic, pre-planting and pre-emergence herbicide for broad-leaf and narrow-leaf weeds of corn

WHO Hazard Class: III (Caution)

Pre-harvest Interval: Not reported

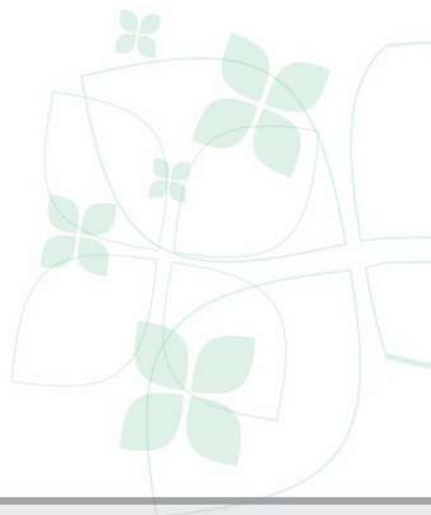
Application Management:

- Symptoms of acetochlor vary among plant species and even among cultivars of the same species. Test the herbicide on different cultivars before use to avoid crop damage.
- Apply acetochlor before weed emergence. Soil must be moist; optimal results are obtained with 10–20 mm irrigation immediately after application. If soil moisture is insufficient, apply pre-planting and incorporate into the top 5 cm of soil.

Crop	Weed Type	Application Timing	Dose
Corn	Annual broad-leaf and narrow-leaf weeds	Before planting mixed with soil or post-planting before weed emergence	2.75–3.5 L/ha

Название продукта: Ацетохлор 76% ЭК **Тип:** Селективный, системный гербицид до посева и до всходов для борьбы с однолетними злаковыми и двудольными сорняками в кукурузе

اسم المنتج: أسيتوكلور ۷۶% EC **النوع:** مبيد أعشاب انتقائي، نظامي، يستخدم قبل الزراعة وقبل النباتات لمكافحة الأعشاب العريضة والرفيعة الأوراق في الذرة



Product Name: Atrazine 80% WP

Trade Name: Gesaprim

Group: Triazine

Type: Systemic & Selective Pre-emergence & Post-emergence Herbicide

Target Weeds: Effective on narrow-leaf and broad-leaf weeds of corn and sugarcane

WHO Hazard Class: III (Toxic and harmful)

Pre-harvest Interval: Not reported

Application Management:

- Atrazine has relatively high persistence in soil. For at least 12 months after application, no crop other than corn or sorghum should be planted. Due to its soil persistence, selection of the next season's crop must be done carefully, avoiding sensitive crops in rotation.
- Sufficient soil moisture is required before application. Rainfall after spraying enhances atrazine's herbicidal effect. If there is insufficient rainfall or soil moisture, irrigation is recommended.

Application Table:

Crop	Application Timing	Dose
Corn	At sowing, after emergence of weeds	5 kg of atrazine alone or mixed with 4–5 L of Stocler
Sugarcane	At sowing, after emergence of weeds	5 kg of atrazine alone or mixed with 4 kg of Amitrine

Название продукта: Атразин 80% ВП **Тип:** Системный и селективный гербицид до- и послевсходового действия

اسم المنتج: أترازين 80% WP **النوع:** مبيد أعشاب نظامي وانتقائي قبل وبعد البسات



Atrazine 80% WP

www.alborzbehamsam.com

Herbicides



Product Name: Bentazone 48% SL

Trade Name: Basagran

Group: Benzothiadiazinone

Type: Selective, contact and post-emergence herbicide for broad-leaf weeds and sedges in rice, alfalfa, and soybean fields

WHO Hazard Class: II (Toxic and harmful)

Pre-harvest Interval: 4 weeks

Soil Persistence: Degraded by soil microorganisms within 6 weeks

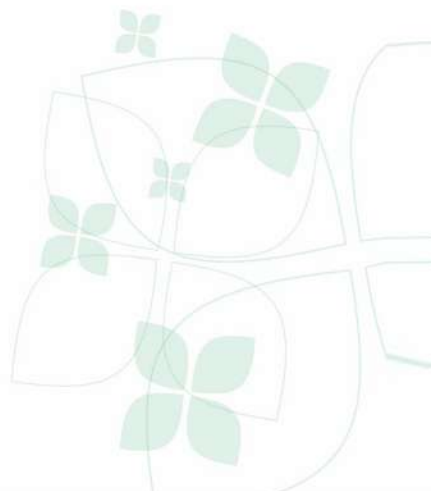
Application Management:

- Drain water from rice fields before spraying; do not apply under dry conditions.
- Avoid spraying stressed crops or within 7 days of insecticide application.
- Use backpack sprayers with flat-fan nozzles at 2–3 bar pressure or tractor-mounted sprayers with fan nozzles.
- Rain 4–8 hours after spraying reduces efficacy; avoid spraying during rain, frost, or untimely cold.

Crop	Weed Type	Application Timing	Dose
Soybean	Broad-leaf weeds	2–3 leaf stage	2–2.5 L/ha
Rice	Broad-leaf weeds and sedges	5–7 leaf stage	3–5 L/ha
Alfalfa & Clover	Broad-leaf weeds	When 3 initial leaves appear	2.5–3 L/ha

Название продукта: Бентазон 48% СЖ **Тип:** Селективный, контактный гербицид после всходов для борьбы с двудольными сорняками и осоками в рисе, люцерне и сое

اسم المنتج: بنتازون 48% SL **النوع:** مبيد أعشاب انتقائي، تلامسي وبعد البزبات للأعشاب العريضة الأوراق والسبابة في حقول الأرز والبرسيم وفول الصويا



Product Name: Pretilachlor 50% EC

Trade Name: Rifit

Group: Chloroacetamide

Type: Selective, systemic, pre-planting and pre-emergence herbicide for narrow-leaf, broad-leaf weeds and sedges in rice fields

WHO Hazard Class: U (Practically non-toxic)

Pre-harvest Interval: Not reported

Soil Persistence: 30 days

Application Management:

- In direct-seeded rice, may damage crop.
- Close irrigation outlets and flood field; spray herbicide uniformly in water, keep field flooded for 72 hours.
- Do not apply on rice before 2-leaf stage.

Crop	Weed Type	Dose
Direct-seeded rice	Broad-leaf, narrow-leaf, sedges	1.5–2 L/ha

Название продукта: Претилахлор 50% ЭК **Тип:** Селективный, системный гербицид до посева и до всходов для борьбы с злаковыми, двудольными сорняками и осоками в рисовых полях

اسم المنتج: بریتیلکلور ۵۰% EC **النوع:** مبيد أعشاب انتقائي، نظامي، يستخدم قبل الزراعة وقبل النباتات للأعشاب الرفيعة والريضة الأوراق والسابطة في حقول الأرز



Pretilachlor 50% EC

www.alborzbehamsam.com

Herbicides



Pendimethalin 33% EC

info@alborzbehnam.com

Herbicides



Product Name: Pendimethalin 33% EC

Trade Name: Stamp

Group: Dinitroaniline

Type: Selective, pre-planting and pre-emergence herbicide for narrow- and broad-leaf weeds in lentils

WHO Hazard Class: II

Pre-harvest Interval: Not reported

Soil Persistence: 3–4 months

Application Management:

- Can be used for annual narrow-leaf crops, vegetables, ornamentals, oilseeds, legumes, and cereals.
- Pre-emergence application should be followed by irrigation or rainfall.
- Effect decreases in dry weather; max application once per crop.

Crop	Dose	Application Timing
Rain-fed lentils	3–4.5 L/ha	Pre-planting or pre-emergence, incorporated into soil

Название продукта: Пендиметалин 33% ЭК **Тип:** Селективный гербицид до посева и до всходов для борьбы с злаковыми и двудольными сорняками в чечевице

اسم المنتج: بنديميثالين 33% EC **النوع:** مييد أعشاب انتقائي يستخدم قبل الزراعة وقبل الانبات للأعشاب الرفيعة والعريفة الأوراق في العدس



Product Name: Tribenuron methyl 75% DF

Trade Name: Granstar

Group: Sulfonylurea

Type: Selective, contact and post-emergence herbicide for broad-leaf weeds in wheat and barley

WHO Hazard Class: U

Pre-harvest Interval: Not reported

Application Management:

- Avoid drift to adjacent broad-leaf crops.
- Weed death may take 1–20 days. Higher doses recommended for semi-tolerant weeds.
- Not recommended for crops under stress or poor growth.

Crop	Weed Type	Application Timing	Dose
Wheat & Barley	Broad-leaf weeds	2–4 leaf stage to end of tillering	10–20 g/ha

Название продукта: Трибенурон-метил 75% ДФ **Тип:** Селективный, контактный гербицид после всходов для борьбы с двудольными сорняками в пшенице и ячмене

اسم المنتج: تريبينورون ميثيل ٧٥ DF % النوع: مييد أعشاب انتقائي، تلامسي وبعد الانبات للأعشاب العريضة الأوراق في القمح والشعير



Tribenuron 75% DF

www.alborzbehamsam.com

Herbicides



Product Name: Trifluralin 48% EC

Trade Name: Treflan

Group: Dinitroaniline

Type: Non-systemic, pre-emergence, pre-planting, selective herbicide for narrow-leaf and broad-leaf weeds

WHO Hazard Class: U (Practically non-toxic)

Pre-harvest Interval: Not reported

Soil Persistence: 57–126 days

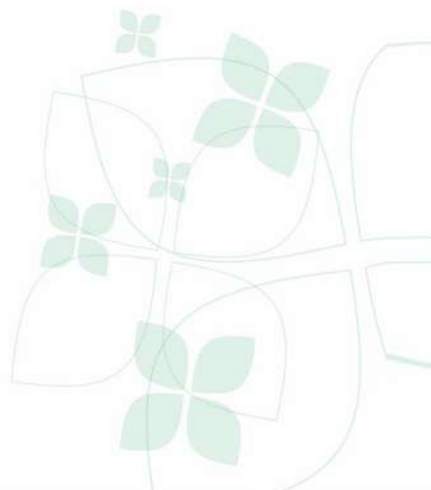
Application Management:

- Avoid early application in sugar beet fields; immediately after application, the field must be harrowed.
- Residues can be hazardous to crops planted later, especially in cold or dry conditions.
- Pre-planting application in crops such as sugar beet, potato, tomato, melon, cucumber, and watermelon may cause crop injury; in these cases, apply post-emergence or after transplanting.

Crop	Application Timing	Dose
Cotton	Before planting, immediately mixed with soil at 8–10 cm depth	2–3 L/ha
Sugar beet	After thinning, mixed with 4–5 L chloridazon	2–2.5 L/ha mixed with 4–5 kg chloridazon
Sunflower & Soybean	Before planting, mixed with soil	1.5–2.5 L/ha

Название продукта: Трифлуралин 48% ЭК **Тип:** Несистемный, до всходов, до посева, селективный гербицид для борьбы с злаковыми и двудольными сорняками

اسم المنتج: تريفلورالين 48% EC **النوع:** مبيد أعشاب غير نظامي، قبل الإنبات، قبل الزراعة، انتقائي للأعشاب الرقيقة والعريضة الأوراق



Trifluralin 48% EC

info@alborzbehsam.com

Herbicides

Product Name: 2,4-D + MCPA 67.5% SL

Trade Name: U46 Combi Fluid

Group: Phenoxyacetic acid

Type: Hormonal, systemic, selective, growth-inhibitor herbicide

WHO Hazard Class: III (Toxic and harmful)

Pre-harvest Interval: Not reported

Application Management:

- Spray in adjacent wheat fields only when there is no wind to avoid drift that can damage broad-leaf crops (sugar beet, cotton, cabbage, vegetables, orchards).
- Do not use on newly planted clover or legumes.
- Avoid application during or prior to rainfall.
- Effective at low concentrations; higher concentrations may injure target crops.

Crop	Weed Type	Application Timing	Dose
Wheat & Barley	Broad-leaf weeds	Tillering to stem formation	1-2 L/ha

Название продукта: 2,4-Д + МЦПА 67,5% SL. **Группа:** Феноксикарбоновая кислота

اسم المنتج: 2,4-D + MCPA 67.5% SL. النوع: مبيد أعشاب هرموني، نظامي، انتقائي، مثبط للنمو



2,4 D + MCPA 67.5% SL

www.alborzbehamsam.com

Herbicides



2,4 D 72% SL

info@alborzbehnam.com

Herbicides



Product Name: 2,4 D 72% SL

Group: Phenoxycarboxylic acid

Type: Hormonal, systemic, selective, growth inhibitor herbicide

WHO Hazard Class: II

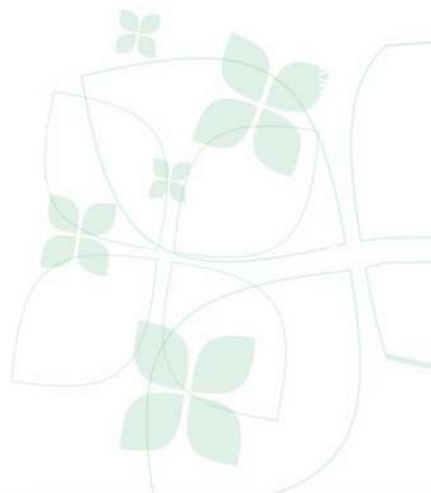
Application Management:

- Post-emergence control of annual and perennial broad-leaf weeds in wheat, barley, rice, corn, and sugarcane.
- Leads to nutrient depletion and death of weeds, including those resistant to other herbicides.

Crop	Target Weed	Dose	Timing
Wheat & Barley	Broad-leaf weeds	1-2 L/ha	Tillering to stem formation
Rice	Broad-leaf weeds	1.5-3 L/ha	5-7 leaf stage
Corn	Broad-leaf weeds	1.5 L/ha	5-7 leaf stage
Sugarcane	Broad-leaf weeds	2-2.5 L/ha	Post-emergence

Название продукта: 2,4-Д (U46 D) Тип: Гормональный, системный, селективный гербицид-ингибитор роста

اسم المنتج: 2,4-D: توفوردی (U46 U) / النوع: مبيد أعشاب هرموني، نظامي، انتقائي، مثبط للنمو



Product Name: Phenmedipham + Desmedipham + Ethofumasate 27.4% EC

Trade Name: Betanal Progress AM

Group: Phenyl carbamate & Benzofuran

Type: Post-emergence, selective, contact herbicide for sugar beet

WHO Hazard Class: III (Caution)

Pre-harvest Interval: Not reported

Soil Half-life: 25 days

Application Management:

- Best results occur when weeds are young, preferably in the cotyledon stage or 2–4 leaf stage.
- High moisture and warm conditions enhance Phenmedipham and Desmedipham; proper soil moisture enhances Ethofumasate.
- Can be mixed with oil-based adjuvants to improve efficacy.

Crop	Weed Type	Dose & Timing
Sugar beet	Broad-leaf weeds	Single spray of 4 L/ha at 2–4 leaf stage, or two sprays of 2 L/ha each: first at cotyledon stage, second one week later

Название продукта: Фенмедифам + Десмедифам + Этофумезат 18% ЭК **Тип:** Гербицид после всходов, селективный, контактного действия для сахарной свеклы

اسم المنتج: فيتمديفام + ديسمديفام + إيئوفوماسات ۱۸ % EC **النوع:** مييد أعشاب بعد البإنبات، ائتقانی، تلامسی لحقول الشمندر السگری



**Phenmedipham + Desmedipham
+ Ethofumasate 27.4% EC**

www.alborzbeh.sam.com

Herbicides



Product Name: Fenoxaprop P-Ethyl 7.5% EW + Mefenpyr Diethyl

Trade Name: Puma Super

Group: Aryloxyphenoxy propionate

Type: Systemic, selective, contact herbicide for narrow-leaf weeds in sugar beet

WHO Hazard Class: III (Caution)

Pre-harvest Interval: Not reported

Application Management:

- Optimal control from 2-leaf stage to flag leaf ligule appearance.
- Rain within 1 hour can wash off the herbicide. Drought stress reduces effectiveness.
- Avoid rolling, harrowing, or leveling 1 week before and after application.
- Not compatible with hormonal herbicides.

Crop	Weed Type	Dose	Timing
Sugar beet	Narrow-leaf weeds	1–1.2 L/ha	Post-emergence, during tillering stage of weeds

Название продукта: Феноксапроп-П-этил 7,5% ЭВ + Мефенпир диэтил **Тип:** Системный, селективный, контактный гербицид для узколистных сорняков в сахарной свекле

اسم المنتج: فینوکسaproپ-بی-ایٹیل ۷.۵ + EW % میفنپیر دی ایٹیل **النوع:** مبيد أعشاب نظامي، اتقائي، تلامسي للأعشاب الرقيقة الأوراق في الشمندر السكري



Product Name: Clethodim 12% EC

Trade Name: Select Super

Group: Cyclohexane dione oxime

Type: Systemic, selective, post-emergence herbicide for annual grasses

WHO Hazard Class: II (Toxic and harmful)

Pre-harvest Interval: Not reported

Application Management:

- Rainfall within 3 hours does not affect efficacy.
- Best applied at 2–4 leaf stage or when weeds are 3–15 cm tall; may require a second application 2–3 weeks later.
- Do not use under water stress.
- Not recommended for mixing with Bentazone.

Crop	Dose	Timing
Sugar beet	0.8–1 L/ha	Post-emergence
Soybean	1–1.2 L/ha	Post-emergence
Onion	1.2 L/ha	Post-emergence

Название продукта: Клетодим 12% ЭК **Тип:** Системный, селективный гербицид после всходов для однолетних злаковых сорняков

اسم المنتج: كليثوديم ١٢ % EC **النوع:** مبيد أعشاب نظامي، انتقائي، بعد الإنبات للأعشاب النجيلية السنوية



Clethodim 12% EC

www.alborzbehamsam.com

Herbicides



Clodinafop-Propargyl 8% EC

info@alborzbehsam.com

Herbicides



Product Name: Clodinafop-Propargyl 8% EC

Trade Name: Tapik

Group: Aryloxy phenoxy propionate

Type: Systemic, selective herbicide for annual narrow-leaf weeds in wheat fields

WHO Hazard Class: II (Toxic and harmful)

Soil Persistence: 5–20 days

Pre-harvest Interval: Not reported

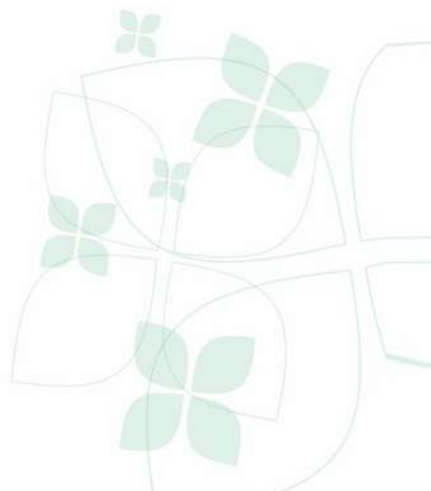
Application Management:

- Avoid spraying crops under stress (flooding, pests, disease, frost, drought, salinity).
- Only broad-leaf crops can follow in rotation.
- High risk of resistance in weeds.
- Avoid application in barley fields.
- Not compatible with 2,4-D (Tufordy), compatible with non-alkaline fungicides and sulfonylurea herbicides.

Crop	Weed Type	Dose	Application
Wheat	Annual narrow-leaf weeds (wild oats, ryegrass, cheat, narrow fox-tail)	0.8–1 L/ha	Post-emergence, depending on weed type and growth stage

Название продукта: Клодинафоп-пропаргил 8% ЭК Тип: Системный, селективный гербицид для однолетних узколистных сорняков в пшеничных полях

اسم المنتج: كلودينا فوب-بروبارجيل 8% EC النوع: مبيد أعشاب نظامي، انتقائي للأعشاب الرفيعة الأوراق السنوية في حقول القمح



Product Name: Glyphosate 41% SL

Trade Name: Roundup

Group: Glycine Derivative

Type: Systemic, non-selective, post-emergence herbicide for annual and perennial weeds

WHO Hazard Class: U (Low acute toxicity under normal conditions)

Pre-harvest Interval: Not reported

Soil Persistence: < 60 days

Application Management:

- Avoid contact with green stems, leaves, or trunks of young trees.
- Best results for perennial narrow-leaf weeds: 4–5 leaf stage, ≥10 cm height.
- Best timing for perennial broad-leaf weeds: near flowering stage.
- Can be mixed with ammonium sulfate (10 kg/ha) to reduce required dose.

Crop	Weed Type	Dose	Timing
Fruit trees	Annual & perennial weeds	4–12 L/ha	During peak weed activity (flowering stage)
Sugarcane	Annual & perennial weeds	10–20 L/ha	Post-emergence, spot treatment

Название продукта: Глифосат 41% СЖ **Тип:** Системный, неселективный гербицид после всходов для однолетних и многолетних сорняков

اسم المنتج: جليفوسات 41% SL النوع: مبيد أعشاب نظامي، غير انتقائي، بعد الإنبات للأعشاب السنوية والدائمة



Glyphosate 41% SL

www.alborzbehamsam.com

Herbicides



Product Name: Metribuzin 70% WP

Trade Name: Sencor

Group: Triazinone

Type: Systemic, selective, pre- and post-emergence herbicide for potato and soybean

WHO Hazard Class: II (Toxic & harmful)

Pre-harvest Interval: Not reported

Soil Persistence: 1–2 months

Application Management:

- Optimal control when weeds are at 1-leaf stage.
- Risk of crop injury in heavy or compact soils, especially if heavy rain follows application. Avoid on light soils.
- Treated crops: do not consume within 60 days; grazing forbidden for 30 days post-application.
- Avoid mixing with highly acidic or alkaline compounds.

Crop	Timing	Dose
Potato	Pre-emergence up to 2–4 leaf weeds; crop height 10–12 cm	750 g/ha
Soybean	Pre-emergence, at sowing, mixed with soil	600 g + 2 L Trifluralin or 3 L Ethalfluralin/ha

Название продукта: Метрибузин 70% ВП **Тип:** Системный, селективный гербицид до и после всходов для картофеля и сои

اسم المنتج: متريبيوزين ٧٠% WP **النوع:** مبيد أعشاب نظامي، انتقائي، قبل وبعد الإنبات للبطاطس وفول الصويا



Product Name: Molinate 71% EC

Trade Name: Ordram

Group: Thiocarbamate

Type: Selective, systemic, pre-emergence herbicide for narrow-leaf weeds (Soruf) in rice fields

WHO Hazard Class: II (Toxic & harmful)

Pre-harvest Interval: Not reported

Soil Persistence: 8–25 days (non-flooded), 40–160 days (flooded)

Application Management:

- For direct-seeded rice, seeds must be sown below treated soil layer.
- Best applied before Soruf weeds reach 2-leaf stage and before sowing nursery seeds.
- Compatible with most herbicides used in rice, including Propanil.

Crop	Weed Type	Timing	Dose
Rice	Narrow-leaf weeds (Soruf)	Pre-2-leaf stage, before sowing in nursery	5–6 L/ha

Название продукта: Молинат 71% ЭК **Тип:** Селективный, системный гербицид до всходов для узколистных сорняков (Соруп) в рисовых полях

اسم المنتج: مولينيت 71% EC **النوع:** مبيد أعشاب انتقائي، نظامي، قبل الانبات للأعشاب الرفيعة الأوراق (سوروف) في حقول الأرز



Molinate 71% EC

www.alborzbehamsam.com

Herbicides



Product Name: Nicosulfuron 4% OD

Trade Name: Cruze

Group: Sulfonyl Ureas

Type: Systemic, selective, post-emergence herbicide for corn fields

WHO Hazard Class: II (Toxic & harmful)

Soil Half-life: 26 days

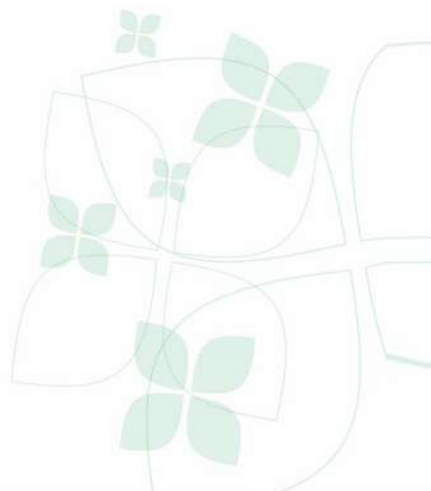
Application Management:

- Use in rotation with other herbicides to prevent weed resistance.
- Best applied at 2-leaf stage of corn; can be used up to 4-leaf stage.
- Adequate soil moisture before and after spraying is critical.
- Not for sweet corn; only for grain corn.
- Do not mix with other pesticides or fertilizers.
- Apply only using ground sprayers; avoid mixing tank with other insecticides/fungicides.

Crop	Weed Type	Timing	Dose
Grain corn	Narrow- and broad-leaf weeds	Post-emergence in rotation with other herbicides	2 L/ha

Название продукта: Никосульфурон 4% ОД **Тип:** Системный, селективный гербицид после всходов для кукурузных полей

اسم المنتج: نيكوسولفورون ٤ % OD **النوع:** مبيد أعشاب نظامي، انتقائي، بعد البزبات لحقول الذرة



Product Name: Haloxypop-R Methyl 10.8% EC

Trade Name: Gallant Super

Group: Aryloxyphenoxy Propionate

Type: Selective, systemic, post-emergence herbicide for narrow-leaf weeds

WHO Hazard Class: II (Toxic & harmful)

Pre-harvest Interval: Not reported

Soil Persistence: 30–60 days

Application Management:

- Contains surfactant; no additional adjuvants needed.
- Broader spectrum than common narrow-leaf herbicides, effective at lower doses.
- Compatible with other narrow-leaf and post-emergence broad-leaf herbicides, but some antagonistic effects may occur.

Crop	Weed Type	Dose	Timing
Sugar beet	Narrow-leaf weeds	0.75–1 L/ha	2–5 leaf stage of weeds
Onion	Narrow-leaf weeds	0.6–0.75 L/ha	2–5 leaf stage
Canola	Narrow-leaf weeds	0.5–0.7 L/ha	2–5 leaf stage
Soybean	Annual and perennial narrow-leaf grasses	0.75–1 L/ha	2–4 leaf stage

Название продукта: Галоксифоп-Р-метил 10,8% ЭК **Тип:** Селективный, системный гербицид после всходов для узколистных сорняков

اسم المنتج: هالوكسيفوب-آر-ميثيل 10.8% EC النوع: مييد أعشاب انتقائي، نظامي، بعد الإنبات للأعشاب الرفيعة الأوراق



Haloxypop - R Methyl 10.8% EC

www.alborzbehsam.com

Herbicides



Product Name: Clopyralid 30% (Water-Soluble)

Trade Name: Lontrel

Group: Pyridine Carboxylic Acid

Type: Systemic, selective, pre-emergence herbicide for annual and perennial broad-leaved weeds

WHO Hazard Class: III (Caution)

Pre-harvest Interval: Not reported

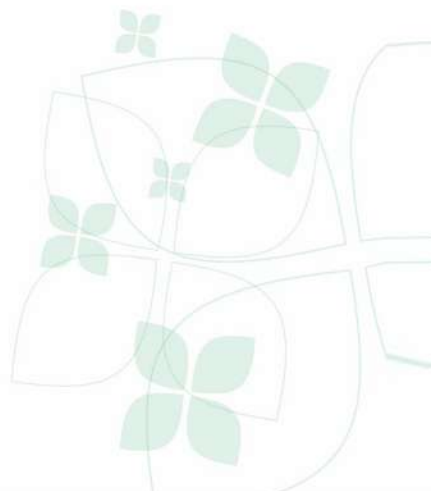
Application Management:

- Absorbed through leaves and roots, translocated in vascular tissues and meristem.
- Recommended stages: Canola (2–6 leaf), Sugar beet (cotyledon–8 leaf).
- Can be mixed with Metamitron, Betanal, Pyramin, or Haloxyfop-R methyl (Gallant Super).
- High doses can cause leaf curling in sugar beet; use with caution.
- Residues in straw/stubble may harm the next crop.
- Toxic to aquatic microorganisms and some sensitive crops (e.g., legumes).
- Rain 4–6 hours after spraying does not affect efficacy.

Crop	Target Weeds	Dose
Canola	Composite, legume, umbelliferous, sevenfold weeds	0.6–0.8 L/ha

Название продукта: Клопиралид 30% (водорастворимый) **Тип:** Системный, селективный гербицид до всходов для однолетних и многолетних двудольных сорняков

اسم المنتج: كلوبيراليد ٣٠% (قابل للذوبان في الماء) **النوع:** مبيد أعشاب نظامي، انتقائي، قبل البتات للعريضة الأوراق السنوية والدائمة



Clopyralid 30% SL

info@alborzbehsam.com

Herbicides

Product Name: Linuron 45% Suspension

Trade Name: Afolon

Group: Urea

Type: Selective, systemic herbicide with residual effect and some contact activity

WHO Hazard Class: II (Toxic & harmful)

Application Management:

- Can be applied to soil or foliage; primarily absorbed by roots but foliar uptake is significant.
- Translocated via xylem throughout the plant.
- Symptoms: rapid chlorosis, leaf necrosis, leaf drying starting from older leaves, and stem drooping.
- Used pre- and post-emergence for narrow- and broad-leaf annual weeds, as well as young emerging weeds in garlic, onion, and chickpea.
- Post-emergence application may damage crops.
- Stable in soil; consider sensitivity of the next crop.
- More effective against broad-leaf weeds than narrow-leaf.

Crop	Dose	Timing
Carrot	2.5 L/ha	Post-emergence
Chickpea (rainfed)	2 L/ha	Pre-planting, mixed with soil
Lentil (rainfed)	1.5 L/ha	Pre-planting, mixed with soil
Corn	2–4 kg/ha	Post-emergence
Potato	2–6 kg/ha	Post-emergence
Soybean	2–6 kg/ha	Post-emergence
Cotton	2–6 kg/ha	Post-emergence
Sugarcane	2–6 kg/ha	Pre-planting, mixed with soil

Название продукта: Линурон 45% суспензия **Тип:** Селективный, системный гербицид с остаточным эффектом и частичным контактным действием

اسم المنتج: لينورون 45% معلق النوع: مييد أعشاب انتقائي، نظامي، ذو تأثير متبقى وبعض النشاط التلامسي



Linuron 45% SC

www.alborzbehsam.com

Herbicides



Oxadiazon 12% EC

info@alborzbehsam.com

Herbicides



Product Name: Oxadiazon 12% EC

Trade Name: Ronstar

Group: Oxadiazole

Type: Contact, selective, post-emergence herbicide; inhibits photosynthesis

WHO Hazard Class: U (Low toxicity)

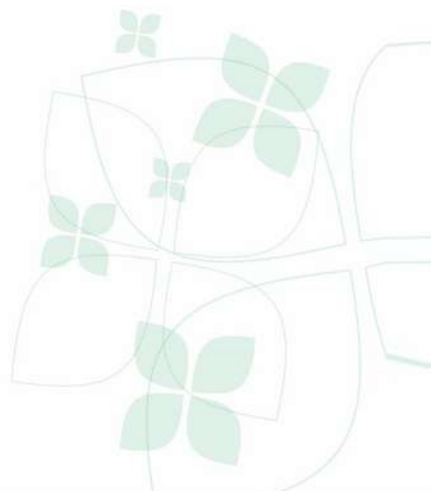
Application Management:

- Effective on seedlings exposed above soil; absorbed by roots and leaves and translocated in the plant.
- Can be mixed with Clomazone for synergistic control of a broad spectrum of weeds in rice fields.

Crop	Target Weed	Dose	Timing
Rice	Narrow-leaf weeds (Sorghum spp.)	3.5–4 L/ha	Pre-2 leaf stage of weeds

Название продукта: Оксадиазон 12% ЭК **Тип:** Контактный, селективный гербицид после всходов; подавляет фотосинтез

اسم المنتج: أوكساديازون ١٢ % EC **النوع:** مييد أعشاب تلامسي، اتقاني، بعد البثبات؛ يثبط عملية التمثيل الضوئي



Product Name: Bispyribac Sodium 40% SC

Trade Name: Clean-Yd

Group: Pyrimidinyloxybenzoic

Type: Selective, systemic herbicide; absorbed by leaves and roots; inhibits acetolactate synthase, preventing plant growth

WHO Hazard Class: III (Caution)

Application Management:

- Systemic and selective for narrow- and broad-leaf weeds and sedges in rice nurseries, direct seeding, and transplanted rice.
- Recommended at 2–4 leaf stage of weeds for best early-stage control.
- Can be combined with Clopyralid for synergistic effect, improving weed control efficiency and reducing application costs.

Crop	Target Weed	Dose	Timing
Rice	Narrow-leaf, broad-leaf, and sedges (e.g., <i>Phloxeroides</i>)	65 mL/ha	2–4 leaf stage of weeds

Название продукта: Биспирибак натрия 40% СК **Тип:** Селективный, системный гербицид; поглощается листьями и корнями; ингибирует ацетолактатсинтазу, препятствуя росту растений

اسم المنتج: بيسپيريبياك صوديوم 40% SC **النوع:** مبيد أعشاب انتقائي، نظامي؛ يمتص عبر الأوراق والجذور؛ يثبط إنزيم أستولكتات سينثاز ويمنع نمو النباتات



Bispyribac Sodium 40% SC

www.alborzbehamsam.com

Herbicides



Product Name: Penoxfulam 24% SC

Trade Name: Rizlan

Group: Triazolopyrimidine

Type: Systemic herbicide, absorbed via leaves, stem, and roots; moves via apoplast and symplast

WHO Hazard Class: U (Low toxicity)

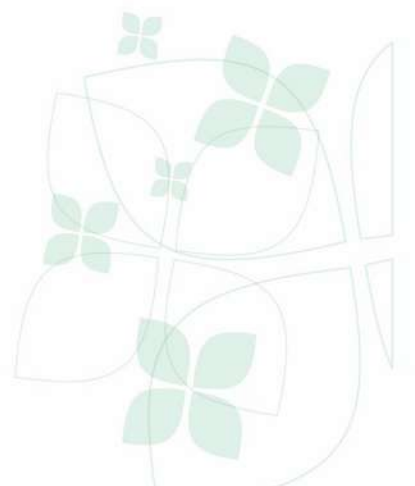
Application Management:

- Broad-spectrum herbicide, widely used in rice fields.
- Often mixed with other herbicides (Oxaziclomphone, Pethoxulam, Mefenacet) for synergistic effect.
- Effective against resistant weed species; control rates >85% for problematic weeds like sedges.

Crop	Target Weed	Dose	Timing
Rice	Long-leaf weeds (soruf), broad-leaf weeds, sedges	150–175 mL/ha (depending on infestation level)	Pre-2 leaf stage

Название продукта: Пеноксфулам 24% СК **Тип:** Системный гербицид, поглощается через листья, стебли и корни; перемещается по апопласту и симпласту

اسم المنتج: بينوكسسولام ٢٤% SC **النوع:** مبيد أعشاب نظامي، يمتص عبر الأوراق والساق والجذور؛ يتنقل عبر الأوبلاست والسيمبلاست



Product Name: Bensulfuron-methyl (Water-dispersible granules 60%)

Trade Name: Londax

Type: Selective systemic herbicide absorbed by leaves and roots.

WHO Hazard Class: U (unlikely to present acute hazard under normal use)

Group: Sulfonylurea

Application Management:

- Bensulfuron-methyl is an ALS inhibitor that prevents plant growth.
- Its effects appear as yellowing of young organs, followed by weakening, drooping, and eventual browning of leaves and stems.
- Due to its systemic action, it is rapidly absorbed by roots and leaves and transported to meristematic tissues.

Crop	Weed Type	Application Rate & Timing
Rice	Broad-leaved weeds and sedges	50–75 g/ha from 1–3 leaf stage and early vegetative stages of weeds up to the 3-leaf stage

Название продукта: Бенсульфурон-метил (вододиспергируемые гранулы 60%) **Тип:** Селективный системный гербицид, поглощаемый листьями и корнями

اسم المنتج: بنسولفورون-ميثيل (حبوب قابلة للتشتت في الماء، ٦٠٪) **النوع:** مبيد أعشاب نظامي انتقائي يمتص عبر الأوراق والجذور



Bensulfuron-methyl 60% WDG

www.alborzbehamsam.com

Herbicides



Sulfosulfuron 75% WG

info@alborzbehamsam.com

Herbicides



Product Name: Sulfosulfuron 75% WG

Trade Name: Apyrus

Group: Sulfonylurea

Type: Systemic, post-emergence herbicide in wheat fields

WHO Hazard Class: U (Practically non-toxic)

Pre-harvest Interval: Not reported

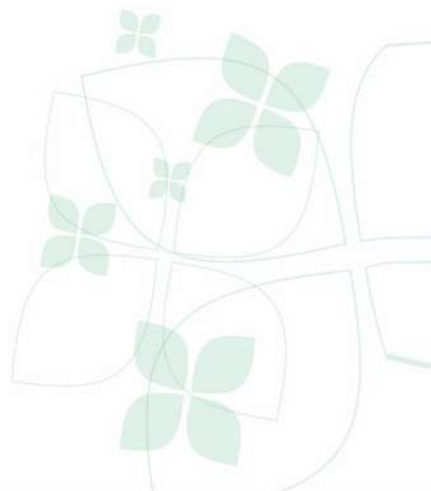
Application Management:

- Application on soils with high EC may cause leaf burn and severe stress in wheat. Optimal soil moisture and temperatures of 15–20 °C improve efficacy.
- Sulfosulfuron has relatively long persistence in soil; test on a small scale before planting subsequent crops. Avoid use in barley fields.
- Compatibility: Not compatible with most insecticides, especially organophosphates; may be mixed with nitrogen fertilizers if necessary. Avoid rotation or mixture with other sulfonylurea herbicides.

Crop	Weed Type	Application Timing	Dose
Wheat	Broad-leaf and narrow-leaf weeds	2-leaf stage to second internode, max 2–5 leaf stage for weeds	27 g/ha

Название продукта: Сульфосульфурон 75% ВГ Тип: Системный гербицид после всходов для пшеничных полей

اسم المنتج: سلفوسلفورون 75% WG النوع: مييد أعشاب نظامي يستخدم بعد البزبات في حقول القمح



Product Name: Glufosinate-Ammonium (20% SL)

Trade Name: Rasta

Group: Phosphonic acid

Type: Non-selective, contact herbicide with slight systemic effect

WHO Hazard Class: II

Application Management:

- Inhibits glutamine synthesis, disrupts ammonium metabolism, affects photosynthesis.
- Can be applied post-planting but pre-germination.
- Effective mainly on annual and non-perennial weeds; less effective on perennial weeds.

Crop	Target Weed	Dose	Timing
Orchards / Fruit trees	Weeds	5–10 L/ha	Pre-emergence, depending on weed species and growth stage

Название продукта: Глюфосинат-аммоний (40% СЖ) **Тип:** Неселективный, контактный гербицид с легким системным эффектом

اسم المنتج: غلوفوسينات-أمونيوم (40% SL) **النوع:** مبيد أعشاب غير انتقائي، تلامسي ذو تأثير نظامي طفيف



Glufosinate-Ammonium 20% SL

www.alborzbeh.sam.com

Herbicides

Product Name: Yodosulfuron-methyl sodium + Mesosulfuron-methyl + Safener

Trade Name: Atlantis

Type: Selective herbicide that prevents the synthesis of valine and isoleucine amino acids, thereby inhibiting cell division and root growth in weeds.

WHO Hazard Class: U (unlikely to present acute hazard under normal use)

Group: Sulfonylurea

Application Management:

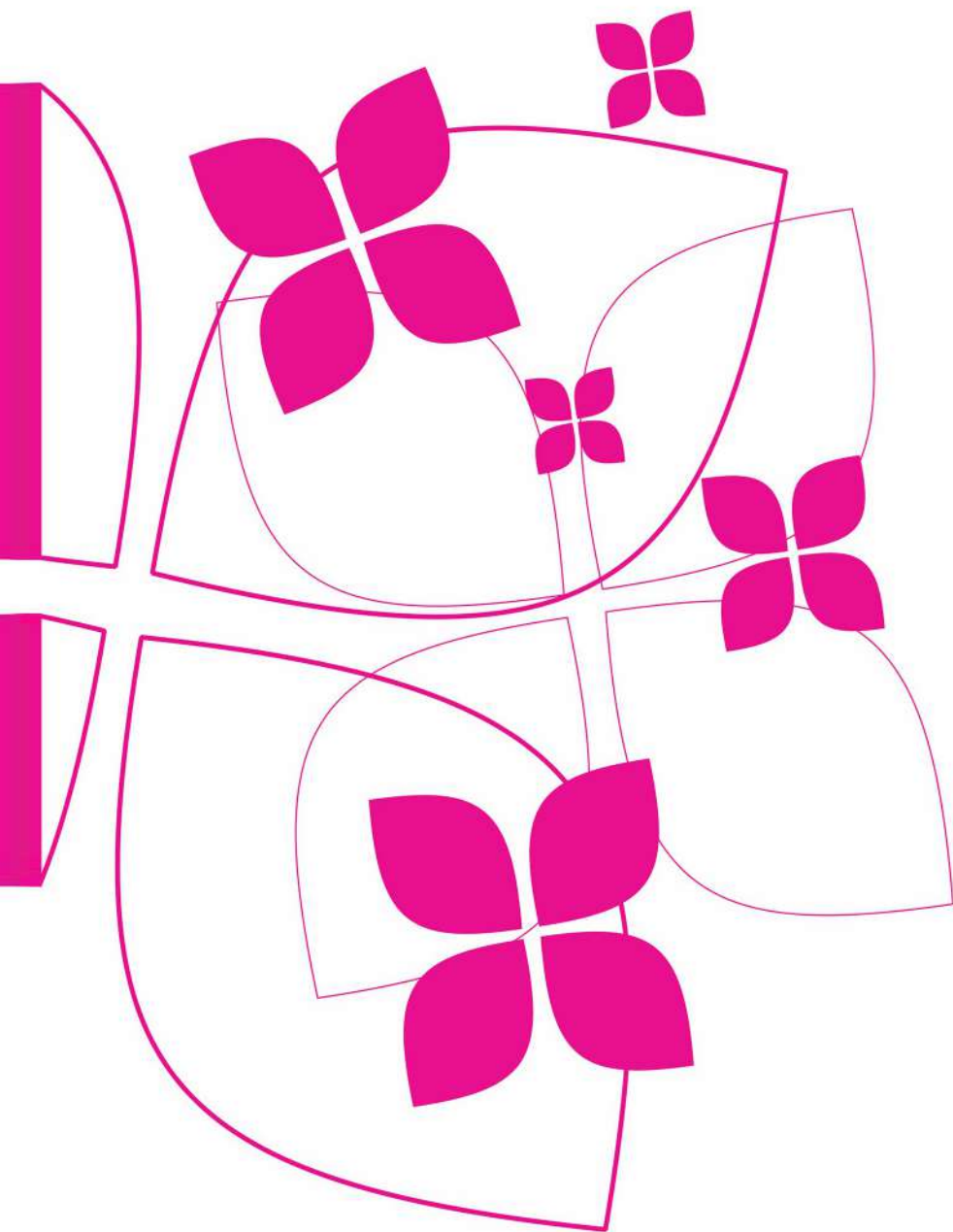
- This herbicide acts primarily on leaves and occasionally on roots to control narrow-leaved and broad-leaved weeds in wheat.
- It is an ALS (Acetolactate Synthase) inhibitor, preventing the synthesis of valine and isoleucine amino acids, which stops cell division and growth of weeds.
- Weeds die within 1–2 weeks, and symptoms such as growth inhibition and yellowing are visible from the fifth day.

Crop	Weed Type	Application Rate
Wheat	Narrow-leaved and broad-leaved weeds	1.5 L/ha

Название продукта: Йодосульфурон-метил натрий + Мезосульфурон-метил + Саффенер Тип: Селективный гербицид, предотвращающий синтез аминокислот валин и изолейцин, тем самым подавляя деление клеток и рост корней у сорняков

اسم المنتج: يودوسولفورون-ميثيل صوديوم + ميسوسولفورون-ميثيل + مادة واقية النوع: مييد أعشاب انتقائي يمنع تصنيع الأحماض الأمينية فالين وايزوليوسين، مما يثبط انقسام الخلايا ونمو الجذور في الأعشاب





Fungicides



Product Name: Iprodione + Carbendazim (Wettable Powder 52.5%)

Formulation: Iprodione + Carbendazim 52.5% WP

Trade Name: Rovral T.S

Group: Dicarboximide + Benzimidazole

Mode of Action: Interferes with mitosis and meiosis division processes

Toxicity Classification (WHO): Class U (No acute toxicity under normal conditions)

Type: Systemic & Contact Fungicide

Pre-harvest Interval (PHI): No pre-harvest interval has been reported for this fungicide.

Application Details:

Crop	Disease	Rate & Method of Application
Rice	Sheath Blight	1 kg/ha
Barley	Brown Stripe Spot (Seed Treatment)	1 kg per 1000 kg seed
Citrus	Yellowing	1 kg per 1000 L water
Mulberry	Shoot Drying	1 kg per 1000 L water (Foliar Spray)

Application Management:

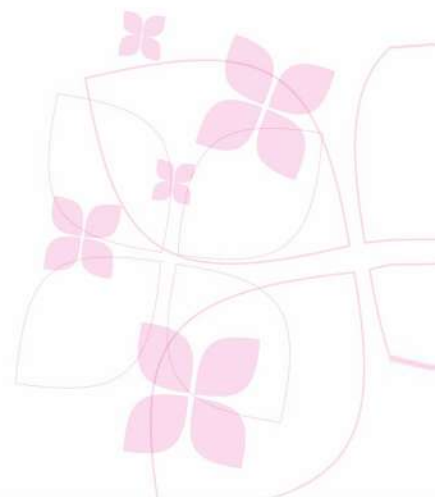
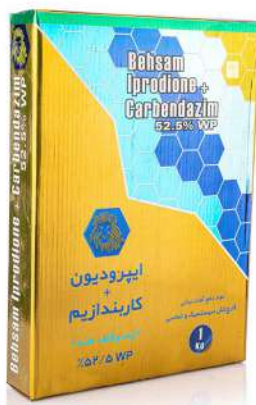
- The combination of two fungicides in this formulation increases overall effectiveness and prevents the development of resistance.
- Due to the presence of *iprodione*, the product has protective properties, and the *Carbendazim* component provides curative effects.

Compatibility:

This fungicide is compatible with most insecticides, fungicides, and acaricides.

Название продукта: Ипродион + Карбендазим (смачивающийся порошок 52,5%) **Тип:** Системный и контактный фунгицид

اسم المنتج: إبروديون + كاربندازيم (مسحوق قابل للبلل ٥٢.٥%) **النوع:** مبيد فطري نظامي وتلامسي



Product Name: Propamocarb Hydrochloride (Soluble Liquid 72.2%)

Formulation: Propamocarb Hydrochloride 72.2% SL

Trade Name: Proplant

Group: Carbamate

Type: Systemic fungicide with protective effect

Mode of Action: Acts systemically within plant tissues providing preventive protection against fungal infections.

WHO Toxicity Class: III (Caution)

Pre-harvest Interval (PHI): 3 days

Application Management:

This fungicide is not effective in sandy or nutrient-poor soils.

Compatibility:

Should **not** be mixed with complete fertilizers (NPK) or metallic fungicides such as Mancozeb.

Crop	Disease	Rate & Application Method
Cucumber	Damping-off	Stage 1: 1‰ during seed sowing in trays. Stage 2: 1‰ at transplanting (soil drenching). Stage 3: 0.75‰ two weeks after transplanting (soil drenching).

Название продукта: Пропамокарб гидрохлорид (растворимая жидкость 72,2%) **Тип:** Системный фунгицид с защитным эффектом

اسم المنتج: بروپاموکارب هیدروکلورید (سائل قابل للذوبان ۷۲.۲٪) النوع: مبيد فطري نظامي ذو تأثير وقائي



Propamocarb Hydrochloride 72.2% SL

www.alborzbehamsam.com

Fungicides



Product Name: Penconazole (Oil-in-Water Emulsion 20%)

Formulation: Penconazole 20% EW

Trade Name: Topas

Group: Triazole

Mode of Action: Inhibits ergosterol biosynthesis, essential for fungal cell membrane formation.

WHO Toxicity Class: II (Toxic and harmful)

Type: Systemic fungicide with protective and curative effects

Pre-harvest Interval (PHI): 14 days

Crop	Disease	Rate & Application Method
Grapes	Powdery Mildew	125 ml per 1000 liters of water

Application Management:

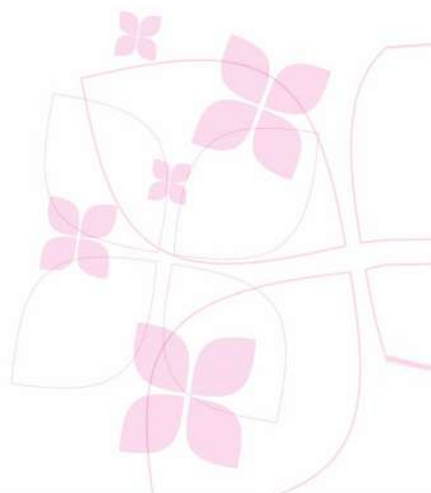
- Penconazole is absorbed through the leaves and translocated throughout the plant.
- Its systemic activity allows it to penetrate tissues and eliminate pathogens effectively.
- Despite low application rates, it provides excellent control of powdery mildew and other fungal diseases.

Compatibility:

Compatible with most insecticides and fungicides, including Captan and Sulfur.

Название продукта: Пенконазол (эмульсия масло-в-воде 20%) **Тип:** Системный фунгицид с защитным и лечебным действием

اسم المنتج: بينكونازول (مستحلب زيت في ماء، ٢٠%) **النوع:** مبيد فطري نظامي ذو تأثير وقائي وعلاجي



Product Name: Tebuconazole (Flowable Seed Dressing 6%)

Formulation: Tebuconazole 6% FS

Trade Name: Raxil

Group: Triazole

Mode of Action: Inhibits steroid demethylation during fungal growth.

WHO Toxicity Class: II (Toxic and harmful)

Type: Systemic fungicide with protective, curative, and eradicated effects

Pre-harvest Interval (PHI): Not registered

Crop	Disease	Rate & Application Method
Wheat	Covered and Loose Smut	50 ml per 100 kg seed (seed dressing before planting)
Corn	Seed Rot	50 ml per 100 kg seed (seed dressing before planting)

Application Management:

Has both protective and systemic effects, penetrating plant tissues to destroy pathogens.

Compatibility:

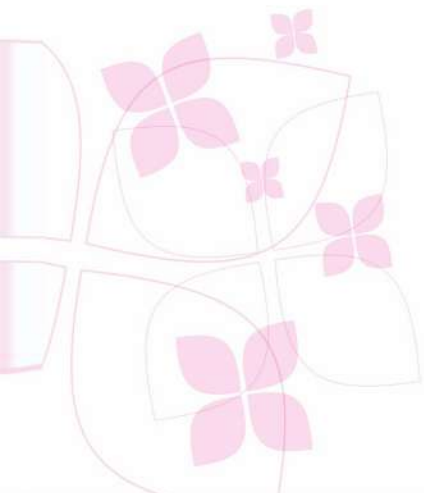
Highly compatible with plants and can be mixed with most fungicides and insecticides.

Not recommended for *durum wheat*.

Toxic to bees, fish, and aquatic organisms.

Название продукта: Тебуконазол (подвижная протравка семян 6%) **Тип:** Системный фунгицид с защитным, лечебным и искореняющим действием

اسم المنتج: تيبكونازول (معالجة بذور سائلة 6% النوع: مبيد فطري نظامي ذو تأثير وقائي، علاجي واستئصالي



Tebuconazole 6% FS

www.alborzbehamsam.com

Fungicides



Product Name: Tebuconazole (Dry Seed Dressing Powder 2%)

Formulation: Tebuconazole 2% DS

Trade Name: Raxil

Group: Triazole

Mode of Action: Inhibits steroid demethylation during fungal growth.

WHO Toxicity Class: III (Caution)

Type: Systemic fungicide with protective, curative, and eradicated effects

Pre-harvest Interval (PHI): Not registered

Crop	Disease	Rate & Application Method
Wheat	Common Covered and Loose Smut	150 g per 100 kg seed (seed dressing before sowing)

Application Management:

Penetrates plant tissues due to systemic activity and eliminates fungal pathogens.

Compatibility:

Compatible with most formulations, fungicides, and insecticides.

Avoid using on *durum wheat*.

Toxic to bees, fish, and aquatic organisms.

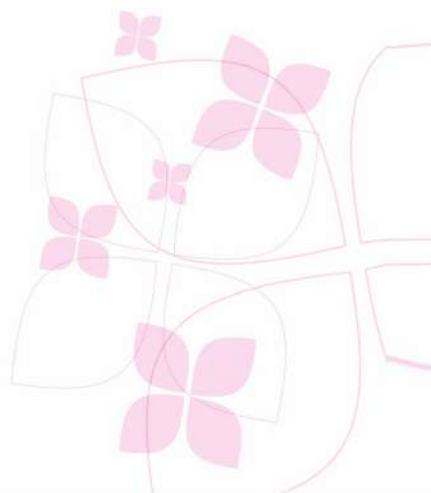
Название продукта: Тебуконазол (сухой порошок для протравки семян 2%) **Тип:** Системный фунгицид с защитным, лечебным и искореняющим действием

اسم المنتج: تيبكونازول (مسحوق جاف لمعالجة البذور ٢٪) **النوع:** مبيد فطري نظامي ذو تأثير وقائي، علاجي واستعمالي

Tebuconazole 2% DS

info@alborzbehsam.com

Fungicides



Product Name: Tebuconazole (Oil-in-Water Emulsion 25%)

Formulation: Tebuconazole 25% EW

Trade Name: Follicur

Group: Triazole

Mode of Action: Inhibits steroid demethylation during fungal development.

WHO Toxicity Class: III (Caution)

Type: Systemic fungicide with protective, curative, and eradivative effects

Pre-harvest Interval (PHI): Wheat: 35 days / Canola: 56 days

Crop	Disease	Rate & Application Method
Wheat	Yellow Rust	1 liter per hectare
Canola	Sclerotinia Rot	1 liter per hectare

Application Management:

- Highly effective both as a preventive (before infection) and curative (after infection) treatment.
- It also eradicates pathogens during advanced disease stages.
- Best results are achieved when applied at early stages of disease development.

Compatibility:

Compatible with most formulations, fungicides, and insecticides.

Avoid application on *durum wheat*.

Название продукта: Тебуконазол (эмульсия масло-в-воде 25%) **Тип:** Системный фунгицид с защитным, лечебным и искореняющим действием

اسم المنتج: تيبكونازول (مستحلب زيت في ماء ٢٥٪) **النوع:** مبيد فطري نظامي ذو تأثير وقائي، علاجي واستئصالي



Tebuconazole 25% EW

www.alborzbehamsam.com

Fungicides



Product Name: Kresoxim-Methyl (Water-Dispersible Granule 50%)

Formulation: Kresoxim-Methyl 50% WG

Trade Name: Strobby

Group: Oximinoacetate

Mode of Action: Disrupts mitochondrial respiration in fungal cells.

WHO Toxicity Class: U (No acute toxicity under normal conditions)

Type: Systemic fungicide with protective, curative, and eradicative effects

Pre-harvest Interval (PHI): Apple: 30 days / Cucurbits: 4 days

Crop	Disease	Rate & Application Method
Apple	Powdery Mildew	0.16–0.2‰
Apple	Apple Scab	0.2‰
Cucurbits	Powdery Mildew	200 g per 1000 L water

Application Management:

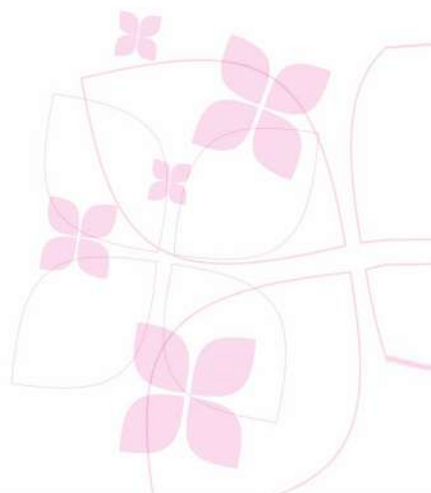
Due to sensitivity in certain cherry and sour cherry cultivars, consult an agricultural expert before use and perform a compatibility test.

Compatibility:

Compatible with most common fungicides, insecticides, and fertilizers.

Название продукта: Крезоксим-метил (вододиспергируемые гранулы 50%) **Тип:** Системный фунгицид с защитным, лечебным и искореняющим действием

اسم المنتج: كريزوكسيم-ميثيل (حبوب قابلة للتشتت في الماء، ٥٠%) **النوع:** مبيد فطري نظامي ذو تأثير وقائي، علاجي واستعمالي



Product Name: Propiconazole (Emulsifiable Concentrate 25%)

Propiconazole 25% EC

Trade Name: Tilt

Group: Triazole

Mode of Action: Inhibitor of steroid demethylation

WHO Hazard Class: II (Toxic and harmful)

Type: Systemic fungicide with protective and curative action

Pre-harvest interval (PHI): 30 days for rice and wheat

Crop	Disease	Application Rate
Rice	Sheath blight (<i>Rhizoctonia solani</i>)	1 L/ha when 30% of stems are infected
Wheat	Wheat rust	1 L/ha
Wheat	Fusarium head blight	At least once during flowering; repeat after 7 days if necessary

Application Management:

Limited movement in soil; ineffective against soil microorganisms.

Compatibility:

Compatible with most fungicides, insecticides, and acaricides except strongly alkaline pesticides.

Название продукта: Пропиконазол (эмульгируемый концентрат 25%) **Тип:** Системный фунгицид с защитным и лечебным действием

اسم المنتج: بروبيكونازول (مركز قابل للاستحلاب ٢٥٪) النوع: مبيد فطري نظامي ذو تأثير وقائي وعلاجي



Propiconazole 25% EC

www.alborzbehamsam.com

Fungicides



Product Name: Tricyclazole (Wettable Powder 75%)

Tricyclazole 75% WP

Trade Name: Beam

Group: Reductase

Mode of Action: Melanin biosynthesis inhibitor

WHO Hazard Class: II (Toxic and harmful)

Type: Systemic fungicide with protective action

PHI: 35 days

Crop	Disease	Application Rate
Rice	Rice blast	500 g/ha after 30–40% panicle emergence, based on forecasting

Application Management:

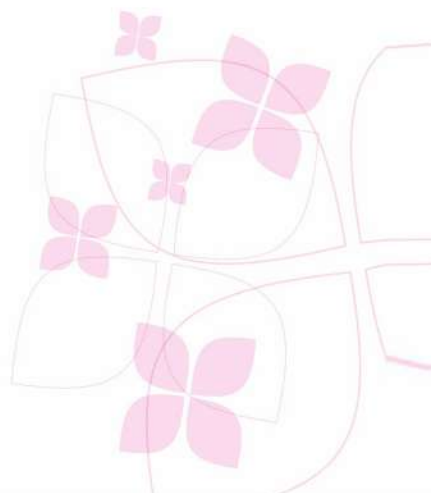
- Forecasting plays a key role in control. Ensure plant aerial parts are well covered during spraying.
- Reduces seedling damage under waterlogging stress.

Compatibility:

Compatible with most fungicides, insecticides, and acaricides except alkaline compounds.

Название продукта: Трициклазол (смачивающийся порошок 75%) Тип: Системный фунгицид с защитным действием

اسم المنتج: تراي سيكلازول (مسحوق قابل للبلل ٧٥٪) النوع: مبيد فطري نظامي ذو تأثير وقائي



Product Name: Thiophanate-Methyl (Wettable Powder 70%)

Trade Name: Topsin M

Group: Thiophanate

Mode of Action: Inhibits β -tubulin synthesis

WHO Hazard Class: U (Unlikely to present acute hazard under normal use)

Type: Systemic fungicide with protective and curative action

PHI: 7–14 days for apples

Crop	Disease	Application Rate
Wheat	Covered and loose smut	150 g per 100 kg seed
Fruit trees	Apple and pear scab, pear white spot, brown rot of peach, powdery mildew of temperate fruit trees	50–60 g per 100 L water

Application Management:

- Can be mixed with grafting paste to protect pruning wounds.
- For prevention of Armillaria root rot (shoestring rot) and Rosellinia root rot (white root rot), dip seedling roots up to the collar before planting.

Compatibility:

Incompatible with copper-based fungicides such as Bordeaux mixture and copper oxychloride.

Название продукта: Тиофанат-метил (смачивающийся порошок 70%) **Тип:** Системный фунгицид с защитным и лечебным действием

اسم المنتج: ثيوفانات-ميثيل (مسحوق قابل للبلل ٧٠٪) النوع: مبيد فطري نظامي ذو تأثير وقائي وعلاجي



Thiophanate-Methyl 70% WP

www.alborzbehamsam.com

Fungicides



Product Name: Cymoxanil + Famoxadone (Water Dispersible Granule 52.5%)

Trade Name: Equation Pro

Group: Cyanoacetamide oxime + Oxazolidinedione

Type: Broad-spectrum fungicide for preventive, protective, and curative use with residual effect

WHO Hazard Class: II (Toxic and harmful)

PHI: 3 days for cucurbits, 14 days for potatoes

Crop	Disease	Application Rate
Cucurbits	Downy mildew	200 g/ha
Potato	Late blight	400 g/ha

Application Management:

- Best used preventively or at early symptom appearance.
- If rain occurs within 3 hours of spraying, repeat the application.

Compatibility:

Do **not** mix with alkaline compounds or pesticides.

Название продукта: Цимоксанил + Фамоксадон (вододиспергируемые гранулы 52,5%) **Тип:** Фунгицид широкого спектра действия для профилактического, защитного и лечебного применения с остаточным эффектом

اسم المنتج: سيموكسانيل + فاموكسادون (حبوب قابلة للتشتت في الماء، ٥٢.٥%) **النوع:** مبيد فطري واسع الطيف للاستخدام الوقائي، الحمايى والعلاجى مع تأثير متبقى

Product Name: Sulfur (Dry Seed Disinfectant Powder 80%)

Trade Name: Kumulus S

Group: Inorganic

Mode of Action: Interferes with cellular respiration

WHO Hazard Class: U (Unlikely to present acute hazard)

Type: Non-systemic, contact, protective, and fumigant fungicide and acaricide

PHI: 1 day for vegetables and melons

Crop	Disease/Pest	Application Rate
Vegetables and melons	Two-spotted spider mite	3 g/L
Ornamental plants	Powdery mildew	1.5 g/L
Vegetables	Powdery mildew	2–3 g/L
Sugar beet	Powdery mildew	4 kg/ha
Apple	Powdery mildew	4 kg/ha
Peach	Powdery mildew	3–4 g/L
Alfalfa	Powdery mildew	2–3 g/L
Melons	Powdery mildew	3 g/L

Application Management:

- Avoid use at high temperatures or during hot hours of the day. Optimal temperature: 16–30°C.
- The 80% DS formulation reduces spray frequency and safety risks.

Compatibility:

Avoid mixing with acaricides or the insecticide Phosalone.

Do not mix with emulsifiable oils; maintain at least a 14-day interval.

Avoid use on ripening fruits or flowering grapes. Some apple varieties (e.g., Gala) are sulfur-sensitive and may experience phytotoxicity.

Название продукта: Сера (сухой порошок для обеззараживания семян 80%) **Тип:** Несистемный, контактный, защитный и фунгицидный фунгицид и акарицид

اسم المنتج: الكبريت (مسحوق جاف لتعقيم البذور ٨٠%) **النوع:** مبيد فطري ومبيد للقراد غير نظامي، تلامسي، وقائي وتبيخيري



Sulfur 80% DF

www.alborzbehsam.com

Fungicides



Product Name: Copper Oxychloride (Copper Oxychloride 35% WP)

Trade Name: Cuprovit

Group: Inorganic

Type: Contact fungicide and bactericide with protective action

WHO Hazard Class: II (Toxic and harmful)

Mode of Action: General disturbance in cellular metabolism

PHI: 3 days for vegetables and tomatoes; 14 days for deciduous fruit trees and peaches

Application Management:

- Avoid high-dose applications during the growing season.
- Decomposes under heat and alkaline conditions.

Compatibility:

Mixing with mercury compounds, lime sulfur, organic sulfur fungicides, or dithiocarbamates (thiram, ziram, ferbam, vapam, nabam, maneb, propineb, mancozeb) requires prior testing on a small scale.

May cause russetting on some apple varieties and phytotoxicity on carrots and potatoes. Prolonged exposure corrodes iron and metals.

Crop	Disease	Application Rate
Peach	Leaf curl	3 kg/1000 L water (two sprays: post-leaf fall in autumn / pre-bud swelling in spring)
Potato	Late blight	3 kg/1000 L water
Tomato	Downy mildew	3 kg/1000 L water
Vegetables and melons	Downy mildew	1–2 kg/ha
Citrus	Gummosis (collar rot)	1% suspension
Deciduous fruit trees	Brown rot (mummification)	3 kg/1000 L water
Palm trees	Inflorescence rot	2 kg/1000 L water

Название продукта: Оксихлорид меди (Оксихлорид меди 35% ВП) **Тип:** Контактный фунгицид и бактерицид с защитным действием

اسم المنتج: أوكسي كلوريد النحاس (أوكسي كلوريد النحاس ٣٥% WP) **النوع:** مبيد فطري وبكتيري تلامسي ذو تأثير وقائي



Product Name: Mancozeb (Wettable Powder 80%)

Trade Name: Dithane M-45

Group: Dithiocarbamate

Mode of Action: Disruption of enzymatic metabolism

Type: Contact fungicide with protective and preventive action

WHO Hazard Class: U (Unlikely to present acute hazard)

PHI: 10 days

Compatibility:

Incompatible with oxidizing agents and acids.

Application Management:

- Due to its manganese and zinc content, it helps alleviate deficiency symptoms of these elements.
- Effectively controls citrus rust mite and prevents mite outbreaks.

Crop	Disease	Application Rate
Wheat	Covered smut	2 kg/1000 L water (seed treatment before planting)
Almond	Shot hole	2 kg/1000 L water
Citrus	Rust mite (silver mite)	2 kg/1000 L water
Alfalfa	Downy mildew	2 kg/1000 L water (foliar spray)
Chickpea	Ascochyta blight	2 kg/1000 L water
Tobacco	Downy mildew	1–2 kg/1000 L water
Carnation	Rust	1.5–2 kg/1000 L water + 0.5% surfactant (preventive)

Название продукта: Манкоцеб (смачивающийся порошок 80%) **Тип:** Контактный фунгицид с защитным и профилактическим действием

اسم المنتج: مانكوزيب (مسحوق قابل للبلل ٨٠%) **النوع:** مبيد فطري تلامسي ذو تأثير وقائي ووقائي مسبق



Mancozeb 80% WP

www.alborzbehnam.com

Fungicides



Product Name: Captan (Wettable Powder 50%)

Trade Name: Ortocide

Group: Phthalimides

Mode of Action: Disrupts enzymatic activity involved in metabolism

WHO Toxicity Class: U (Not acutely toxic under normal conditions)

Type: Non-systemic fungicide with preventive and curative effect

Pre-harvest Interval (PHI): 10 days

Crops and Application Rates:

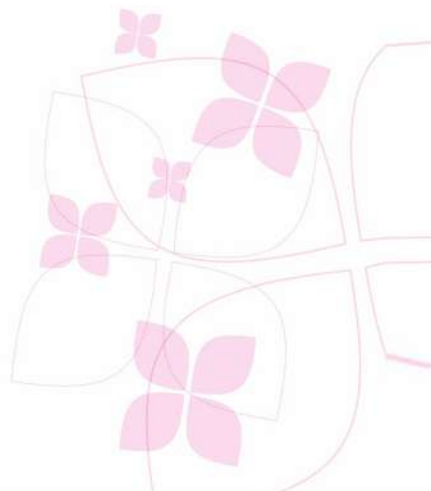
Crop	Disease	Application Rate
Apple	Apple Scab	3 kg per 1000 L water. First spray from silver-tip to bud swelling; subsequent sprays after petal fall as needed
Stone fruits (peach, apricot, cherry, etc.)	Peach Leaf Curl	3–3.5 kg per 1000 L water
Stone fruits	Shot Hole Disease	3 kg per 1000 L water
Grapes	Downy Mildew	3 kg per 1000 L water
Ornamentals, forest trees, non-fruit plants	Damping-off (collar rot)	5.7–10 g/m ² mixed into soil up to 10 cm depth
Chickpea	Fusarium Wilt	2 g/L water

Application Management:

- Use with caution on peach and nectarine due to potential phytotoxicity and leaf drop.
- Avoid mixing with oils; allow at least 10 days between applications of Captan and oil-based sprays.
- Do not mix with lime or lime-containing compounds (e.g., Bordeaux mixture) or use alkaline water, as Captan degrades rapidly under such conditions.
- Avoid use under prolonged cloudy, cool conditions, or with strong wetting agents.

Название продукта: Каптан (смачивающийся порошок 50%) **Тип:** Несистемный фунгицид с профилактическим и лечебным эффектом

اسم المنتج: كابتان (مسحوق قابل للبلل ٥٠%) النوع: مبيد فطري غير نظامي ذو تأثير وقائي وعلاجي



Product Name: Difenoconazole (Flowable Seed Treatment 3%)

Trade Name: Dividend

Type: Systemic fungicide with protective and curative effect

Group: Triazole

Mode of Action: Inhibits ergosterol biosynthesis

WHO Toxicity Class: II (Harmful)

Pre-harvest Interval (PHI): Not established

Crops and Application Rates:

Crop	Disease	Application Rate
Wheat	Dwarf Bunt	200 g per 100 kg seed
Wheat	Common Bunt	1 kg per 1000 L water
Wheat	Loose Smut	2 g/L water

Application Management:

- Avoid repeated use for more than one season to prevent resistance; rotate with fungicides of different resistance groups.
 - Do not use more than 6–10 L of water per 100 kg of seed.
- Compatibility:** Incompatible with most insecticide formulations but compatible with approved fungicides for wheat seed treatment.

Название продукта: Дифеноконазол (подвижная обработка семян 3%) **Тип:** Системный фунгицид с защитным и лечебным действием

اسم المنتج: ديفينوكوناзол (معالجة بذور سائلة 3%) النوع: مبيد فطري نظامي ذو تأثير وقائي وعلاجي



Difenoconazole 3% FS

www.alborzbehamsam.com

Fungicides



Product Name: Trifloxystrobin (Water Dispersible Granule 50%)

Trade Name: Flint

Group: Oximinoacetate

Mode of Action: Inhibits cellular respiration

WHO Toxicity Class: U (Not acutely toxic under normal conditions)

Type: Broad-spectrum fungicide with protective and curative properties

Pre-harvest Interval (PHI): 1 day (cucumber, tomato), 7 days (apple)

Crops and Application Rates:

Crop	Disease	Application Rate
Apple	Scab, Powdery Mildew	200 g per 1000 L water
Cucumber	Powdery Mildew	200 g/ha
Tomato	Powdery Mildew	250 g/ha

Application Management:

- Has a mesotegmic effect (acts both on surface and within leaf tissue).
- Best applied early in infection.
- Highly effective against powdery mildew and storage diseases.
- Does not move through plant xylem; mobility is local.

Compatibility: Compatible with most common pesticides and formulations.

Название продукта: Трифлуксистробин (вододиспергируемые гранулы 50%) **Тип:** Фунгицид широкого спектра действия с защитными и лечебными свойствами

اسم المنتج: تريفلوكسسستروبین (حبوب قابلة للتشتت في الماء ٥٠%) **النوع:** مبيد فطري واسع الطيف ذو خصائص وقائية وعلاجية



Product Name: Metalaxyl (Granule 5%)

Trade Name: Ridomil

Group: Acylalanine

Mode of Action: Inhibits protein synthesis

WHO Toxicity Class: II

Type: Systemic fungicide with protective effect

Pre-harvest Interval (PHI): 7 days

Crops and Application Rates:

Crop	Disease	Application Rate
Cucumber	Damping-off	20–25 kg/ha

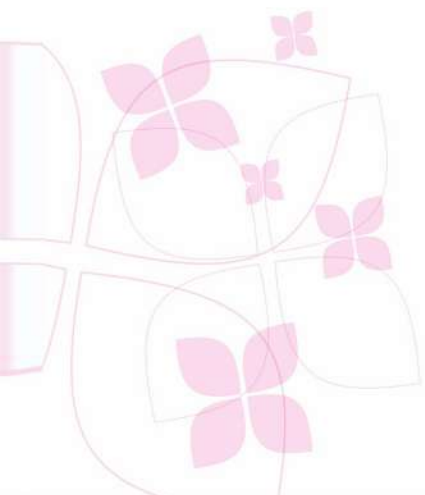
Application Management:

Can be used for seed treatment, root dipping, soil drenching, or foliar spraying.

Compatibility: Compatible with most fungicides, insecticides, and acaricides.

Название продукта: Металаксил (гранулы 5%) **Тип:** Системный фунгицид с защитным действием

اسم المنتج: ميتالاكسيل (حبوب 5%) **النوع:** مبيد فطري نظامي ذو تأثير وقائي



Metalaxyl 5% G

www.alborzbehnam.com

Fungicides



Product Name: Metalaxyl + Mancozeb (Wettable Powder 72%)

Trade Name: Ridomil-MZ

Group: Acylalanine + Dithiocarbamate

Mode of Action: Inhibits protein synthesis

WHO Toxicity Class: U (Not acutely toxic under normal conditions)

Type: Systemic and protective fungicide

Pre-harvest Interval (PHI): 7 days

Crops and Application Rates:

Crop	Disease	Application Rate
Cucumber	Damping-off	2 kg per 1000 L water, drench around base of plants
Greenhouse soil	Soil disinfection	200 g/m ³ soil mixed thoroughly
Potato	Late Blight	3 kg/ha

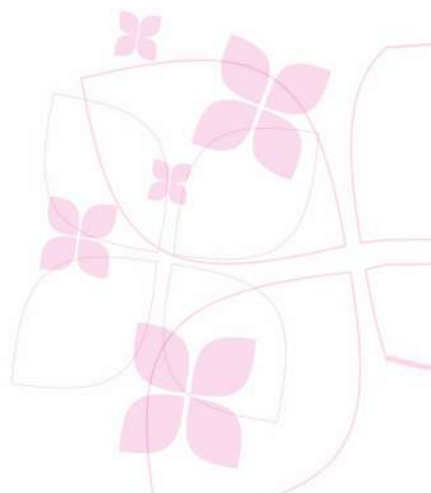
Application Management:

- Effective for seed treatment, root dipping, soil drenching, and foliar spraying.
- Less effective in soils rich in organic matter.

Compatibility: Compatible with most fungicides, insecticides, and acaricides.

Название продукта: Металаксил + Манкоцеб (смачивающийся порошок 72%) **Тип:** Системный и защитный фунгицид

اسم المنتج: ميتالاكسيل + مانكوزيب (مسحوق قابل للبلل ٧٢%) **النوع:** مبيد فطري نظامي ووقائي



Product Name: Tridemorph (Emulsifiable Concentrate 75%)

Trade Name: Calixin

Group: Morpholine

Mode of Action: Inhibits ergosterol biosynthesis

WHO Toxicity Class: II (Harmful)

Type: Systemic fungicide with curative and eradicant effect

Pre-harvest Interval (PHI): Not established

Crops and Application Rates:

Crop	Disease	Application Rate
Sugar beet	Powdery Mildew	750 mL/ha in early spring or fall at first signs of infection

Application Management:

- Low risk of being washed off by rain.
 - Often used with carbendazim to broaden spectrum for cereals.
- Compatibility:** Can be used with propiconazole, tebuconazole, and triadimenol.

Название продукта: Тридеморф (эмульгируемый концентрат 75%) **Тип:** Системный фунгицид с лечебным и искореняющим действием

اسم المنتج: ترايديمورف (مركز قابل للاستحلاب ٧٥٪) **النوع:** مبيد فطري نظامي ذو تأثير علاجي واستقصائي



Tridemorph 75% EC

www.alborzbehamsam.com

Fungicides



Product Name: Fosetyl-Aluminium (Water Dispersible Granule 80%)

Trade Name: Elit

Group: Phosphonate

Mode of Action: Disrupts fungal cell wall and membrane function

WHO Toxicity Class: U (Not acutely toxic under normal conditions)

Type: Systemic fungicide with bidirectional mobility (upward and downward)

Pre-harvest Interval (PHI): 30 days

Crops and Application Rates:

Crop	Disease	Application Rate
Pistachio	Gummosis	2.5 kg per 1000 L water; repeat up to 3 times at 2-week intervals if needed

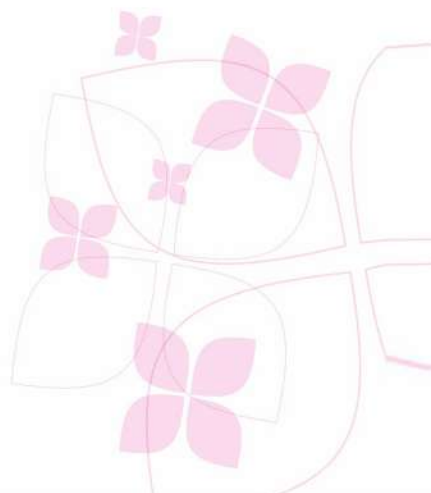
Application Management:

Can be applied via foliar spray or irrigation.

Compatibility: Incompatible with copper-based compounds, acidic solutions, or flowable/SC formulations; avoid using with surfactants or stabilizers due to phytotoxicity risk.

Название продукта: Фосетил-алюминий (вододиспергируемые гранулы 80%) **Тип:** Системный фунгицид с двунаправленной подвижностью (вверх и вниз)

اسم المنتج: فوسيتيل-المنيوم (حبوب قابلة للتشتت في الماء ٨٠%) **النوع:** مبيد فطري نظامي ذو حركة ثنائية الاتجاه (معدوداً وهبوطاً)



Product Name: Bordeaux (Suspension Concentrate 18%)

Trade Name: Bordeaux Behsam (by Alborz Behsam)

Group: Inorganic

Mode of Action: Disrupts cellular metabolism and causes protein precipitation

Type: Non-systemic fungicide and bactericide with contact, protective, preventive, and curative effects

Toxicity: Safe for bees; toxic to fish

Crops and Application Rates:

Crop	Disease	Application Rate
Apricot	Shot Hole	10 g/L (two sprays)
Stone fruits (peach, plum, etc.)	Gummosis (Leaky Gum Disease)	5 g/L (three sprays)
Pome fruits	Orange Thread Blight	5 g/L (three sprays)

Application Management:

- Test on a small area before wide use to avoid phytotoxicity.
 - **Avoid** use on **peaches** (sensitive).
 - Can reduce frost damage by inhibiting ice-nucleating bacteria.
- Compatibility:** Can be used with propiconazole, tebuconazole, or triadimenol; not compatible with organophosphate insecticides.

Название продукта: Бордоская смесь (суспензионный концентрат 18%) **Тип:** Несистемный фунгицид и бактерицид с контактным, защитным, профилактическим и лечебным действием

اسم المنتج: بوردو (مركز معلق ٨ ٪) **النوع:** مبيد فطري وبكتيري غير نظامي ذو تأثير تلامسي، وقائي، وقائي مسبق وعلاجي



Bordeaux 18% SC

www.alborzbehamsam.com

Fungicides



Product Name: Bordeaux Mixture (Copper Sulfate + Calcium Hydroxide)

Trade Name: Bordeaux Fix

Group: Inorganic

Mode of Action: Copper-based protective fungicide absorbed through leaves, inhibits fungal growth

Type: Contact, protective, preventive, and curative fungicide and bactericide

Toxicity: Safe for bees; toxic to fish

Pre-harvest Interval (PHI): 7 days

Crops and Application Rates:

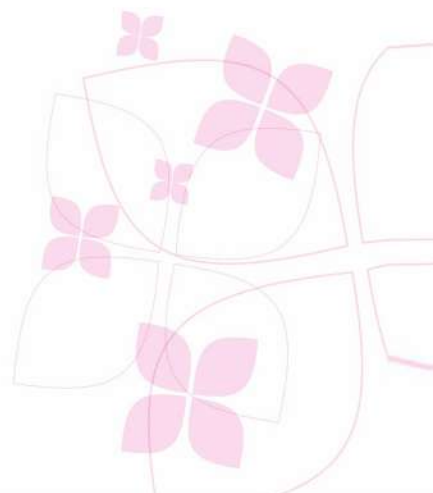
Crop	Disease	Application Rate
Pome and Stone fruits	Canker (1–2-year-old)	HV: 1 kg $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ + 1.25 kg $\text{Ca}(\text{OH})_2$ in 100 L water; LV: 4 kg $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ + 2 kg $\text{Ca}(\text{OH})_2$ in 100 L water
Stone fruits	Shot Hole Disease	HV: 1 kg $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ + 1.25 kg $\text{Ca}(\text{OH})_2$ in 100 L water; LV: 4 kg $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ + 2 kg $\text{Ca}(\text{OH})_2$ in 100 L water
Peach	Leaf Curl	HV: 1 kg $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ + 1.25 kg $\text{Ca}(\text{OH})_2$ in 100 L water; LV: 4 kg $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ + 2 kg $\text{Ca}(\text{OH})_2$ in 100 L water
Almond	Rust (Brick Spot)	10 g/L (3 sprays)

Application Management:

- Test before wide use; **avoid** mixing with **organophosphates**.
- **Sensitive varieties** (especially **peaches**) may show leaf burn.
- Can reduce frost damage by controlling **ice-nucleating bacteria**.

Название продукта: Бордоская смесь (сульфат меди + гидроксид кальция) **Тип:** Контактный фунгицид и бактерицид с защитным, профилактическим и лечебным действием

اسم المنتج: خليط بوردو (كبريتات النحاس + هيدروكسيد الكالسيوم) **النوع:** مبيد فطري وبكتيري تلامسي ذو تأثير وقائي، وقائي مسبق وعلاجي



Product Name: Carbendazim (Wettable Powder 60%)

Trade Name: Bavistin

Group: Benzimidazole

Mode of Action: Inhibits β -tubulin synthesis

WHO Toxicity Class: U (Not acutely toxic under normal conditions)

Type: Systemic fungicide with protective and curative effects; absorbed and translocated through roots and foliage

Pre-harvest Interval (PHI): 4–14 days

Crops and Application Rates:

Crop	Disease	Application Rate
Wheat, Barley	Covered & Loose Smut	2 g/kg seed (2 kg per 1000 L water for seed treatment)
Cereals	Tip Blight	2 kg per 1000 L water (foliar spray)
Sugar Beet	Cercospora Leaf Spot	1.5–2 kg per 1000 L water (foliar spray)

Application Management:

- Primarily used for **cereal seed disinfection**.
 - Also effective against Cercospora leaf spot in sugar beet, damping-off in ornamentals, and Fusarium or Septoria in cereals.
 - Avoid** use in mushroom cultivation units.
 - Not recommended** under **drought or heat stress**.
- Compatibility:** Compatible with most insecticides and fungicides.

Название продукта: Карбендазим (смачивающийся порошок 60%) **Тип:** Системный фунгицид с защитным и лечебным действием; поглощается и перемещается через корни и листья

اسم المنتج: كاربندازيم (مسحوق قابل للبلل ٦٠%) **النوع:** مبيد فطري نظامي ذو تأثير وقائي وعلاجي؛ يمتص ويتنقل عبر الجذور والأوراق



Carbendazim 60% WP

www.alborzbehamsam.com

Fungicides



Dodine 65% WP

info@alborzbehamsam.com

Fungicides

Product Name: Dodine 65% WP

Trade Name: Melprex

Group: Guanidine

Mode of Action: Disruption of cell membrane

WHO Hazard Classification: Class II (Toxic and Harmful)

Type: Protective fungicide with slight curative effect

English Description: Protective fungicide with slightly treatment effect

Pre-Harvest Interval (PHI): 21 days between the last spraying and harvest

Use Recommendations

Crop	Disease	Dosage and Application
Apple	Apple Scab (<i>Venturia inaequalis</i>)	0.25–1.5 kg per 1000 liters of water per hectare

Application Management:

Compatibility and Mixing:

This fungicide is **incompatible** with *Chlorobenzilate group fungicides, oils, and oil emulsions*.

Avoid mixing with **Sulfur** and **Tetradifon**.

Usage Restrictions:

- Do not apply **before, immediately after, or close to frost or freezing conditions**.
- On **peach trees**, do not use after petal fall.
- Heavy (hard) water** may cause incompatibility or coagulation.
- Peach, plum, grape, and raspberry** may be injured by Dodine application.
- On certain **apple varieties**, such as *Golden Delicious*, Dodine may cause **russetting (surface roughness)** on the fruit.

Название продукта: Додин 65% ВП Тип: Защитный фунгицид с легким лечебным эффектом

اسم المنتج: دودين ٦٥ WP %النوع: مبيد فطري وقائي ذو تأثير علاجي طفيف



Product Name: Dimethomorph + Pyraclostrobin 18.7% DF

Russian: Диметоморф + Пираклостробин 18.7% DF

Arabic: ١٨.٧ % DF ديميٲومورف + بيراكلوسٲروبين

Type: fungicide

Russian: фунгицид

Arabic: مبيد فطري

- **Trade Name:** Pyradim
- **Group:** Cinnamic acid amide – Methoxycarbamate
- **Mode of Action:**

Dimethomorph: systemic fungicide from cinnamic acid group with protective and anti-sporulation effects.

Pyraclostrobin: strobilurin-type fungicide that blocks electron transport in mitochondrial cytochrome complex III.

- **Hazard Classification:** WHO: III
- **Pre-Harvest Interval:** Cucumber: 3 days
- **Application Management:** Contains 12% Dimethomorph and 6.7% Pyraclostrobin.
Do not exceed 3 consecutive applications or 6 total per season. Rotate with other fungicides to prevent resistance.

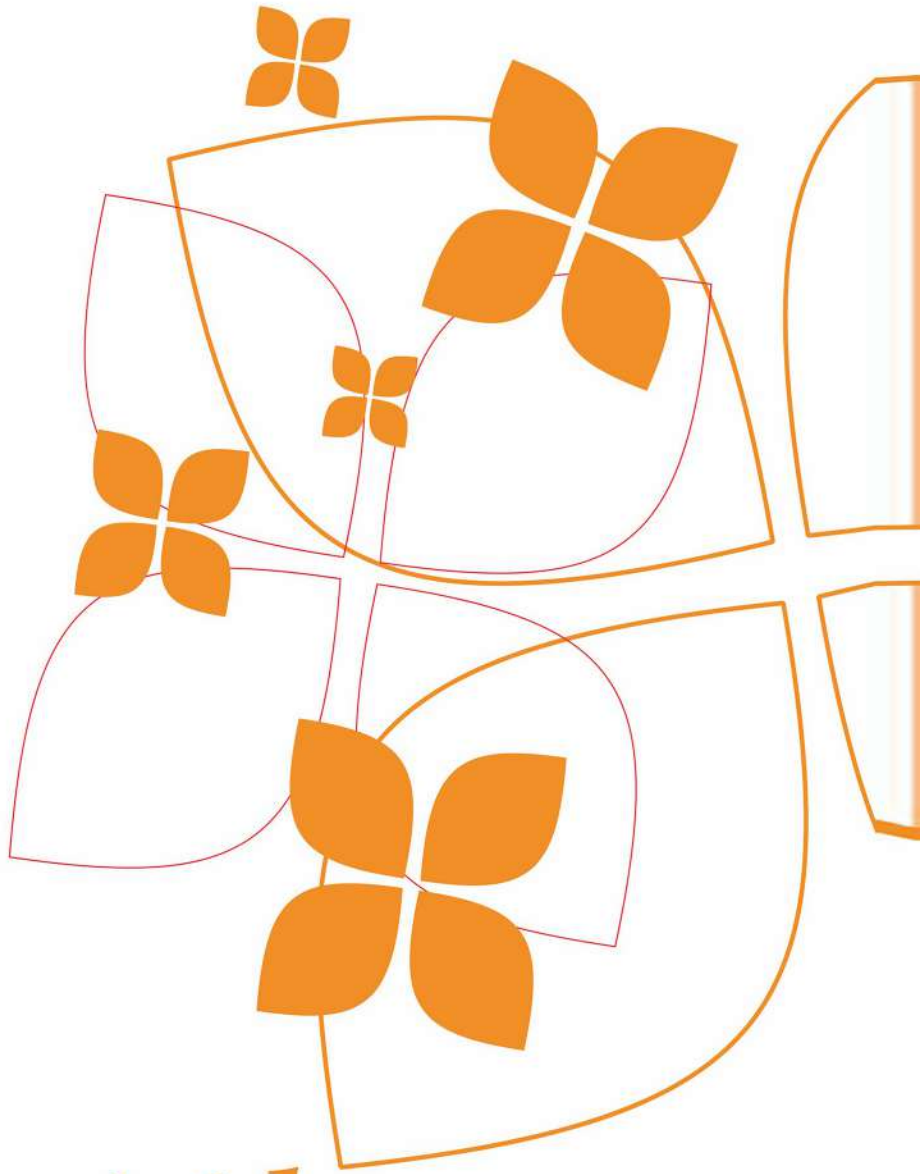
Crop	Target Disease	Application Rate
Cucumber	Downy mildew	0.25 per 1000 (0.025%)



Dimethomorph + Pyraclostrobin 18.7% DF

www.alborzbehamsam.com

Fungicides



Acaricides

Molluscicides, Growth Regulator

Hormone, Household

Insecticides, Veterinary Products

Product Name: Spirodiclofen 24% SC

Trade Name: Envidor

Group: Tetrionic acid

Type: Non-systemic acaricide with contact effect

WHO Hazard Class: III (Caution)

Pre-harvest Interval: Citrus & Apple: 14 days; Pistachio: 7 days

Mode of Action:

Controls all developmental stages of mites. Works differently from other acaricides by disrupting fat synthesis in mites. Most effective early in the season at egg hatching. Only controls active eggs, not overwintering eggs. Effective against mites resistant to other chemical groups.

Crop	Pest	Dosage
Apple	European red mite	0.5 – 0.6 L per 1000 L
Citrus	Rust mite	0.18 – 0.27 L per 1000 L (depending on predator population)
Citrus	Red mite	0.2 – 0.3 L per 1000 L (depending on population, rotate with other acaricides)
Pistachio	Psyllid	300 – 400 mL per hectare

Название продукта: Спиридиклофен 24% СК **Тип:** Несистемный акарицид с контактным действием

اسم المنتج: سپيروديكلوفين ۲۴% SC **النوع:** مبيد قراد غير نظامي ذو تأثير تلامسي



Spirodiclofen 24% SC

www.alborzbehamsam.com

**Acaricide
Household Insecticides**



Product Name: Bromopropylate 25% EC

Trade Name: Neoron

Group: Diphenylcarbonyl

Type: Non-systemic acaricide, contact effect, long residual

WHO Hazard Class: U (No acute toxicity under normal conditions)

Pre-harvest Interval: 21 days

Mode of Action:

Long-lasting contact acaricide; highly effective even on phosphorus-resistant mites. Penetrates plant tissues to control eriophyid mites inside leaves. Avoid early spraying to preserve predator mites. Effective on eggs, nymphs, and adults.

Crop	Pest	Dosage
Sugar beet	Two-spotted mite	1.2 L/ha (early summer)
Citrus	Yellow mite	1 L/1000 L water (late spring/early summer)
Citrus	Red mite	1 L/1000 L water

Название продукта: Бромпропилат 25% ЭК **Тип:** Несистемный акарицид с контактным действием и длительным остаточным эффектом

اسم المنتج: بوروبروپیلات ۲۵ % EC **النوع:** مبيد قراذ غیر نظامی ذو تأثير تلامسی وتأثير متبقى طويل



Product Name: Propargite 57% EC

Trade Name: Omite

Group: Sulfite

Type: Non-systemic acaricide, contact & respiratory effect, long residual

WHO Hazard Class: III (Caution)

Pre-harvest Interval: 7 days

Compatibility: Not compatible with alkaline or petroleum/oil-based compounds.

Mode of Action:

Disrupts ATP synthesis, mostly stays on leaf surface; minimal residue in fruit. Effective on phosphorus-resistant mites; use only once per season and rotate with other acaricides.

Crop	Pest	Dosage
Cotton	Spider mite	1.5 L/ha
Sugar beet	Two-spotted mite	1 L/ha
Fruit trees	European red mite	1 L/1000 L water
Pistachio	Mite	1 L/1000 L water
Legumes	Mite	2 L/1000 L water
Tea	Short mite	1.2 L/1000 L water
Forest trees & non-fruit plants	Two-spotted mite	1 L/1000 L water
Bean fields	Two-spotted mite	1 L/1000 L water
Apple	European red mite	1 L/1000 L water

Название продукта: Пропаргит 57% ЭК **Тип:** Несистемный акарицид с контактным и дыхательным действием, длительный остаточный эффект

اسم المنتج: بروبارجيت ۵۷% EC **النوع:** مبيد قراد غير نظامي ذو تأثير تلامسي وتنفسي وتأثير متبقى طويل



Propargite 57% EC

www.alborzbehamsam.com

Acaricide
Household Insecticides



Pyridaben 20% WP

info@alborzbehsam.com

Acaricide
Household Insecticides

Product Name: Pyridaben 20% WP

Trade Name: Sanmite

Group: Pyridazinone

Type: Non-systemic acaricide with knock-down effect, long residual, effective on all stages

WHO Hazard Class: II (Toxic & harmful)

Pre-harvest Interval: Citrus: 3 days

Mode of Action:

Highly effective on all mite stages. Behavior disruption occurs within 15 minutes, full knockdown in 90 minutes, death after a few days. Also effective against whiteflies, aphids, and leafhoppers.

Crop	Pest	Dosage
Citrus	Rust mite	40 – 50 g per 1000 L water (0.4 – 0.5 L per 1000 L)

Название продукта: Пиритабен 20% ВП Тип: Несистемный акарицид с нокаутующим эффектом, длительным остаточным действием, эффективен на всех стадиях

اسم المنتج: بيريدابين ۲۰ % WP النوع: مييد قراذ غير نظامي ذوتأثير ماعق، تأثير متبقى طويل، فعال في جميع المراحل



Product Name: Fenpyroximate 5% SC

Trade Name: Ortus

Group: Phenoxypyrazole

Type: Contact acaricide, high penetration, severe knockdown, effective on nymphs, adults, and eggs

WHO Hazard Class: II (Toxic & harmful)

Pre-harvest Interval: 14 days

Mode of Application:

Mix with ovicidal acaricides (like Hexythiazox) for full life cycle control. Use early in season to reduce nymph population. Avoid during flowering due to potential ovary sterility.

Crop	Pest	Dosage
Apple	European red mite	0.5 L/1000 L water
Citrus	Red mite	0.5 L/1000 L water (for eggs), or 0.5 L/1000 L + 1% oil for nymphs/adults
Citrus	Rust mite	0.5 – 0.7 L/1000 L water

Название продукта: Фенпироксимат 5% СК **Тип:** Контактный акарицид с высокой проникающей способностью, сильным нокаутующим эффектом, эффективен против нимф, взрослых и яиц

اسم المنتج: فينبايروكسيمات 5% SC **النوع:** مبيد قراد تلامسي ذو اختراق عالي وتأثير صاعق قوي، فعال ضد الحوريات والبالغات والبيض



Fenpyroximate 5% SC

www.alborzbehamsam.com

Acaricide
Household Insecticides



Clofentezine 50% SC

info@alborzbehamsam.com

Acaricide
Household Insecticides

Product Name: Clofentezine 50% SC

Trade Name: Apollo

Group: Mite growth inhibitor

Type: Contact acaricide, long residual, ovicidal

WHO Hazard Class: III

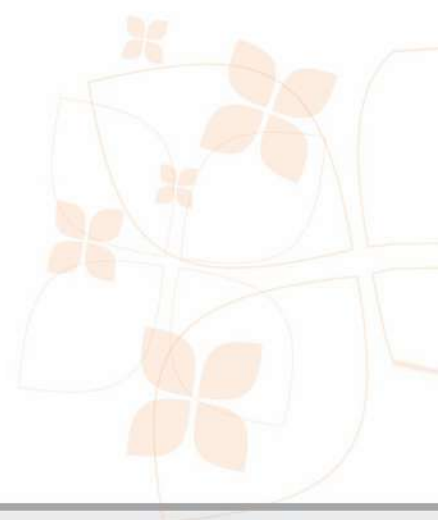
Pre-harvest Interval: Cold-climate fruits: 14–21 days

Phytotoxicity: Can damage greenhouse roses

Crop	Pest	Dosage
Cold-climate fruit trees	European red mite	0.25 – 0.5 L/1000 L water (pre-bloom application)

Название продукта: Клофентезин 50% СК Тип: Контактный акарицид с длительным остаточным действием, овицидный

اسم المنتج: كلوفنتيزين ٥٠% SC النوع: مييد قراد تلامسي ذو تأثير متبقى طويل وتأثير قاتل للبيض



Product Name: Hexythiazox 10% EC

Trade Name: Nissorun

Group: Mite growth inhibitor

Type: Non-systemic acaricide, contact & ingestive, larvicidal and ovicidal

WHO Hazard Class: U

Pre-harvest Interval: 14 days

Mode of Action:

Highly effective on eggs, larvae, and nymphs; ineffective on adults. Spray late winter near egg hatch for overwintering control. Spray when most population is in egg/nymph stage. Ensure thorough coverage.

Crop	Pest	Dosage
Citrus	Red mite	500 – 750 mL per 1000 L water + 1 L oil

Название продукта: Гекситазокс 10% ЭК **Тип:** Несистемный акарицид с контактным и кишечным действием, ларвицидный и овицидный

اسم المنتج: هيكسيثيازوك ١٠ % EC **النوع:** مبيد قراد غير نظامي ذو تأثير تلامسي ومعدى، قاتل لليرقات والبيض



Hexythiazox 10% EC

www.alborzbehamsam.com

**Acaricide
Household Insecticides**



Etoxazole 10% SC

info@alborzbehamsam.com

Acaricide
Household Insecticides

Product Name: Etoxazole 10% SC

Trade Name: Baroque

Group: Growth regulator

Type: Non-systemic acaricide with contact effect

WHO Hazard Class: III

Pre-harvest Interval: 21 days

Mode of Action:

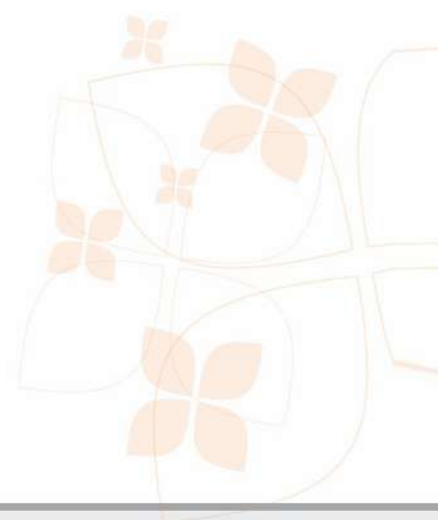
Disrupts normal development of mites during molting, preventing shedding and causing death. Effective on eggs, larvae, and nymphs but not adult mites. Long residual activity; repeated spraying is generally not required.

Compatibility: Should not be mixed with Bordeaux mixture.

Crop	Pest	Dosage
Apple trees	European red mite (nymph stage)	0.25 – 0.5 L per 1000 L water

Название продукта: Этоксазол 10% СК Тип: Несистемный акарицид с контактным действием

اسم المنتج: إيتوكسازول 10% SC النوع: مبيد قراد غير نظامي ذو تأثير تلامسي



Product Name: Metaldehyde 6% B

Trade Name: Metalan G

Group: Polymer

Type: Contact & ingestive molluscicide (snails & slugs)

WHO Hazard Class: II (Toxic & harmful)

Pre-harvest Interval: Not established

Application Notes:

Kills snails under low humidity. Avoid contact with edible leaves during final bait application. Do not apply before rain or within 4 days of greenhouse irrigation.

Crop	Pest	Dosage
Citrus	Snails	20 – 25 kg bait
Tobacco	Wireworm, snail, slug	20 – 25 kg/ha
Vegetables & forest trees	Snails & slugs	20 – 25 kg/ha

Название продукта: Метальдегид 6% В **Тип:** Контактный и кишечный моллюскоцид (против улиток и слизней)

اسم المنتج: ميتالدهيد 6% B **النوع:** مبيد رخويات تلامسي ومعدى (للرخويات والليماكس)



Metaldehyde 6% B

www.alborzbehamsam.com

Acaricide
Household Insecticides



Product Name: Gibberellic Acid 10% EC

Mode of Action: Plant growth regulator

Chemical Group: Gibberellins

WHO Hazard Class: U (No acute toxicity)

Active Ingredient: 100 g/kg

Application & Management:

- Used as a growth regulator to increase cluster growth, berry size, and reduce grape cluster rot.
- Effects include: cell elongation, flowering promotion, root elongation and formation, leaf growth, seed greening, breaking bud dormancy, and increasing internode length.

Horticultural Uses:

- Increases fruit size and quality.
- Delays fruit ripening for late harvest.
- Promotes taller growth in dwarf plants.
- In grapes, increases berry size; in apple and pear, elongates fruit.

Название продукта: Гибберелловая кислота 10% ЭК **Тип:** Регулятор роста, увеличивает размер гроздей и ягод, снижает гниль винограда

اسم المنتج: حمض الجبريليك 10% EC **النوع:** منظم نمو يستخدم لزيادة نمو العناقيد وحجم الحبات وتقليل تعفن العنب



Product Name: Cypermethrin 10% EC (Livestock & Poultry Insecticide)

Trade Name: Sayvet

Chemical Properties: Synthetic pyrethroid, broad-spectrum effect, long residual, low toxicity to mammals, rapid metabolism and excretion, fast degradation.

Application: Controls external parasites of livestock and poultry, such as mites, scabies-producing mites, flies, and lice.

Название продукта: Циперметрин 10% ЭК (инсектицид для скота и птицы) Химические свойства: Синтетический пиретроид, широкий спектр действия, длительный остаточный эффект, низкая токсичность для млекопитающих, быстро метаболизируется и выводится, быстро разлагается

اسم المنتج: سايپرمترين 10% EC (مبيد حشري للماشية والدواجن) الخصائص الكيميائية: بيريثرويد صناعي، تأثير واسع الطيف، تأثير متبقى طويل، سمية منخفضة للتدييات، سرعة في الأبيض والإخراج، يتحلل بسرعة



Cypermethrin 10% EC

www.alborzbehamsam.com

Acaricide
Household Insecticides



Product Name: Lambda-cyhalothrin 5% EC (Livestock & Poultry Insecticide)

Trade Name: Lamvet

Chemical Properties: Synthetic pyrethroid, broad-spectrum effect, long residual, low toxicity to mammals, rapid metabolism and excretion, fast degradation.

Application: Controls external parasites of livestock and poultry (mites, scabies mites, flies, lice) and effective against various larval myiasis.

Animal	Application Method	Parasite Type	Dosage	Notes
Cattle	Body spray	All parasites	1 mL per 1 L water	For single-host mites, repeat after 4–5 weeks
Cattle	Bath	All parasites	1 mL per 666–1000 mL water	For multi-host mites, repeat after 5–12 weeks
Sheep	Bath	Scabies	1 mL per 1 L water	Repeat 7–10 days later if infestation is high
Sheep	Bath or body spray	Lice	1 mL per 1000 mL water	One treatment usually sufficient, may repeat 2–3 weeks later
Poultry	Body spray	Mites & lice	1 mL per 500–1000 mL water	One treatment usually sufficient, may repeat 2–3 weeks later
Livestock & Poultry Facilities	Floor & wall spray	Nuisance insects	100 mL per 5–10 L water per 100 m ²	One treatment usually sufficient, may repeat 2–3 weeks later

Название продукта: Лямбда-цигалотрин 5% ЭК (инсектицид для скота и птицы) **Химические свойства:** Синтетический пиретроид, широкий спектр действия, длительный остаточный эффект, низкая токсичность для млекопитающих, быстро метаболизируется и выводится, быстро разлагается

اسم المنتج لامبدا -سايهالوترين 5% EC مبيد حشري للماشية والدواجن **(الخصائص الكيميائية:** بيريثرويد صناعي، تأثير واسع الطيف، تأثير متبقى طويل، سمية منخفضة للتدييات، سرعة في الأبيض والإخراج، يتحلل بسرعة



Product Name: Cypermethrin 10% EC (Household Insecticide)

Trade Name: Bebestar

Chemical Type: Synthetic pyrethroid

Properties: Non-systemic, contact and ingestive, repellent, immediate and long-lasting effect. Effective against many nuisance insects: small and large beetles, fleas, bedbugs, scorpions, bees, earwigs, termites, mites, centipedes. Also effective on mites in public health and livestock.

Pest Type	Dosage	Application Area
Various beetles	50–70 mL in 5 L water	100 m ²
Termites, bedbugs, moths	70–100 mL in 5 L water	100 m ²
Flies, mosquitoes, household insects	50 mL in 5 L water	100 m ²
Sewage areas	25 mL in 10 L water	100 m ²

Название продукта: Циперметрин 10% ЭК (бытовой инсектицид) **Химический тип:** Синтетический пиретроид

اسم المنتج: سايبرمثرين ۱۰% EC **مبيد حشري منزلي (النوع الكيميائي):** بيريثرويد صناعي



Cypermethrin 10% EC

www.alborzbehamsam.com

Acaricide
Household Insecticides



Product Name: Behestar Insecticide Spray

Active Ingredients:

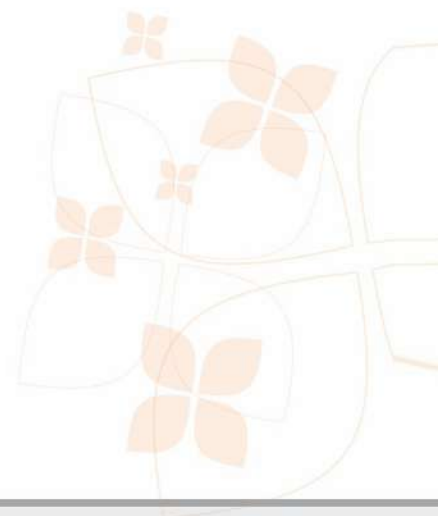
- Imidacloprid 0.3%
- Cypermethrin 0.1%
- Lambda-cyhalothrin 0.9%

Description:

A fast-acting, long-lasting insecticide spray effective against a wide range of nuisance insects such as cockroaches, ants, termites, fleas, and mites.

Аэрозольный инсектицид Бехестар (Имидаклоприд 0.3% – Циперметрин 0.1% – Лямбда-цигалотрин 0.9%)

بخاخ میبد حشری بهستار (ایمیداکلوپرید ۰.۳٪ – سایپرمتترین ۰.۱٪ – لامبدا-سایهالوترین ۰.۹٪)



Product Name: Behestar Insecticide Spray

Active Ingredients:

- Cypermethrin 0.15%
- Permethrin 0.15%
- Tetramethrin 0.15%
- Piperonyl Butoxide 1.0%

Description:

A fast-acting, long-lasting insecticide spray effective against cockroaches, mosquitoes, ants, termites, fleas, and mites.

Аэрозольный инсектицид Бехестар (Циперметрин 0.15% – Перметрин 0.15% – Тетраметрин 0.15% – Пиперонилбутотксид 1.0%)

بخاخ میبد حشری بهستار (سایپر مثرین ۰.۱۵٪ - بیر مثرین ۰.۱۵٪ - تترامثرین ۰.۱۵٪ - پایپرونیل بیوتوکسید ۱.۰٪)



Behestar Insecticide Spray

www.alborzbehamsam.com

Acaricide
Household Insecticides



Behestar insecticide Powder

info@alborzbehnam.com

Acaricide
Household Insecticides

Product Name: Behestar Insecticide Powder

Active Ingredients:

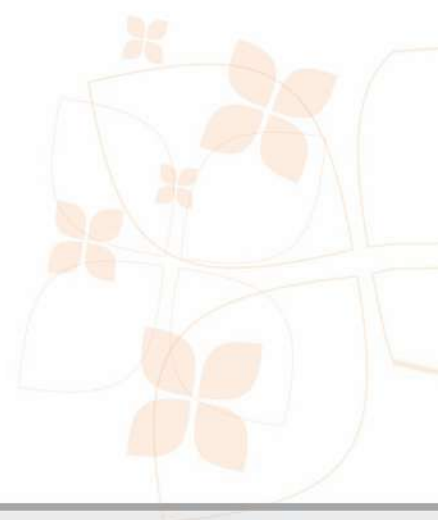
- Cypermethrin 1.2%
- Talc Powder (carrier)

Description:

A non-flammable pyrethroid-based insecticide powder that targets the nervous system of cockroaches, mosquitoes, and ants.

Порошковий інсектицид Бехестар (Циперметрин 1.2%)

مسحوق میبذ حشری بهستار (سایپر مثرین ۱.۲٪)



Product Name: Behestar Insecticide Powder

Active Ingredient:

- Lambda-cyhalothrin 20%

Description:

A highly effective and long-lasting insecticide powder that acts against a broad spectrum of pests and external parasites.

Порошковий інсектицид Бехестар (Лямбда-цигалотрин 20%)

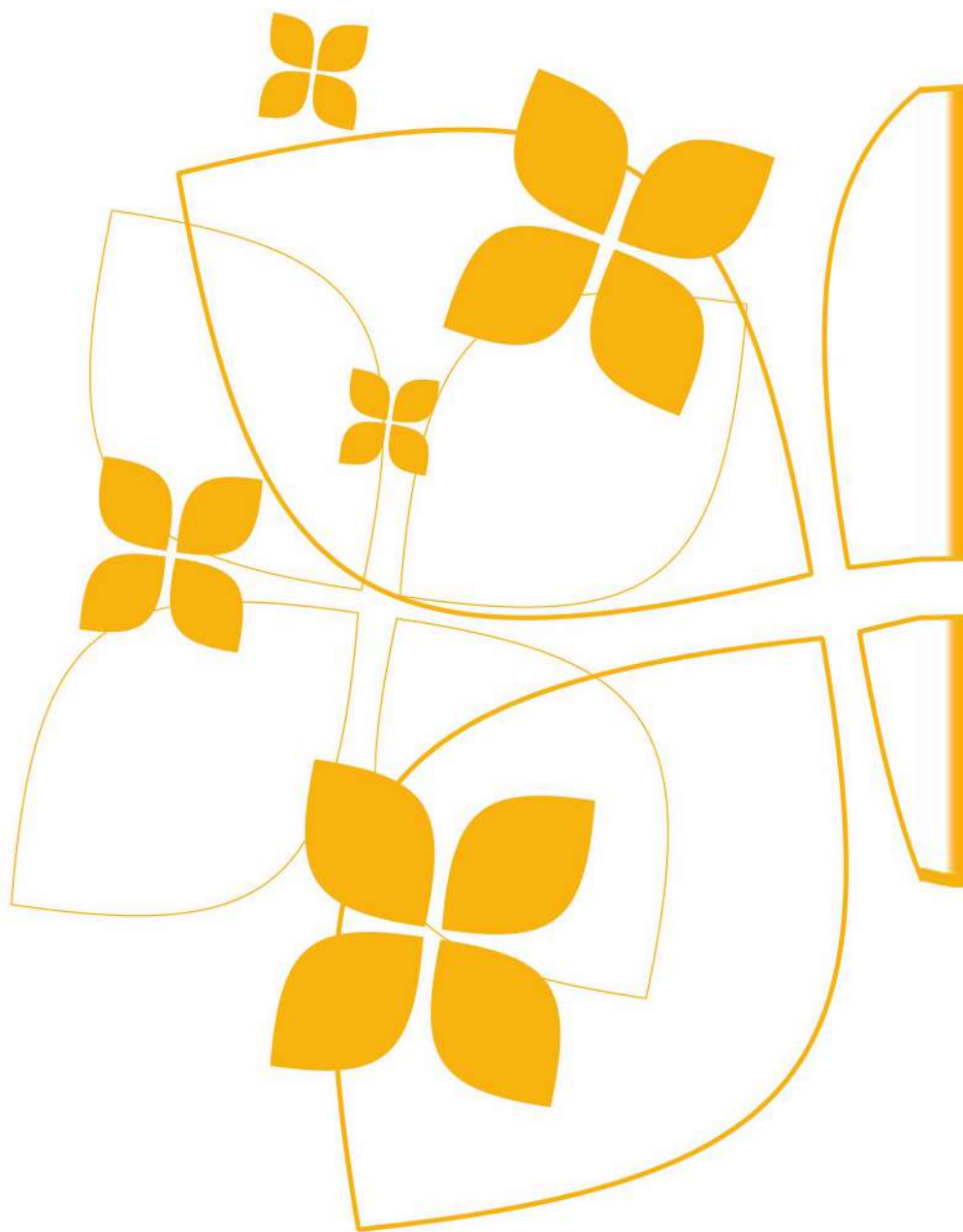
مسحوق میبد حشری بهستار (لامبدا-سایهالوترین ۲۰٪)



Behestar Insecticide Powder

www.alborzbehsam.com

Acaricide
Household Insecticides



Emulsifiable Oil



Emulsifiable Oil 80% L

info@alborzbehsam.com

Emulsifiable Oil



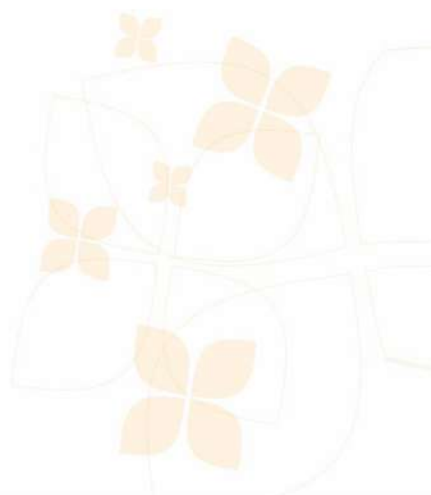
Product Name: Emulsifiable Oil 80% L

Type: acaricide

Mode of Action: Contact insecticide and acaricide with ovicidal effect that facilitates pesticide penetration.

Эмульгируемое масло 80% L

زيت مستحلب ٨٠ % L



Product Name: Emulsifiable Oil 90% EC

Type: Insecticide and acaricide

Mode of Action: Contact insecticide and acaricide with ovicidal effect that facilitates pesticide penetration.

Application Guidance: Used in pre-spring, spring, and summer treatments in combination with certain pesticides as a foliar spray at 1.5% concentration after the peak of winter cold and before tree bud break.

Эмульгируемое масло 90% EC

زیت مستحلب ۹۰ % EC



Emulsifiable Oil 90% EC

www.alborzbehsam.com

Emulsifiable Oil



Mojant Behsam

info@alborzbehnam.com

Emulsifiable Oil

Product Name: Mojant Behsem Sprayable Soap

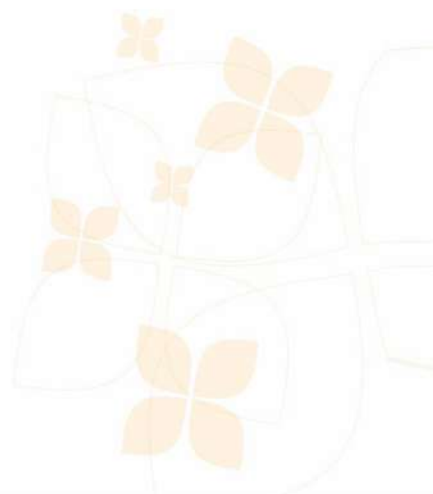
Type: insecticide adjuvant

Mode of Action: Insecticidal with contact, selective action and enhances pesticide penetration.

Functionality: This product improves wetting and spreading, reduces surface tension of water droplets, and enhances the efficacy of pesticides. It also increases pesticide persistence, improves nutrient uptake, and ensures better distribution of pesticide and liquid fertilizers.

Моющее средство для опрыскивания Моджант Бехсем

صابون الرش موجانت بهسم



Product Name: Dioctyl

Type: insecticide, acaricide, ovicide, adjuvant

Mode of Action: Enhancer of pesticide efficacy and penetration.

Properties: Acts as an ovicide, acaricide, and insecticide. It disrupts all insect life stages by dissolving the insect cuticle, making it effective against hard-bodied pests such as green pistachio stink bug, pistachio psylla, scale insects, and mealybugs.

Additional Features: The succinate component in its chemical structure contributes to cell wall disruption. Its unique formulation causes pesticide particles to dry and become heavier, reducing drift. Being chemically inert, it does not react with other compounds and can be safely mixed with pesticides to enhance effectiveness.

Диоктил

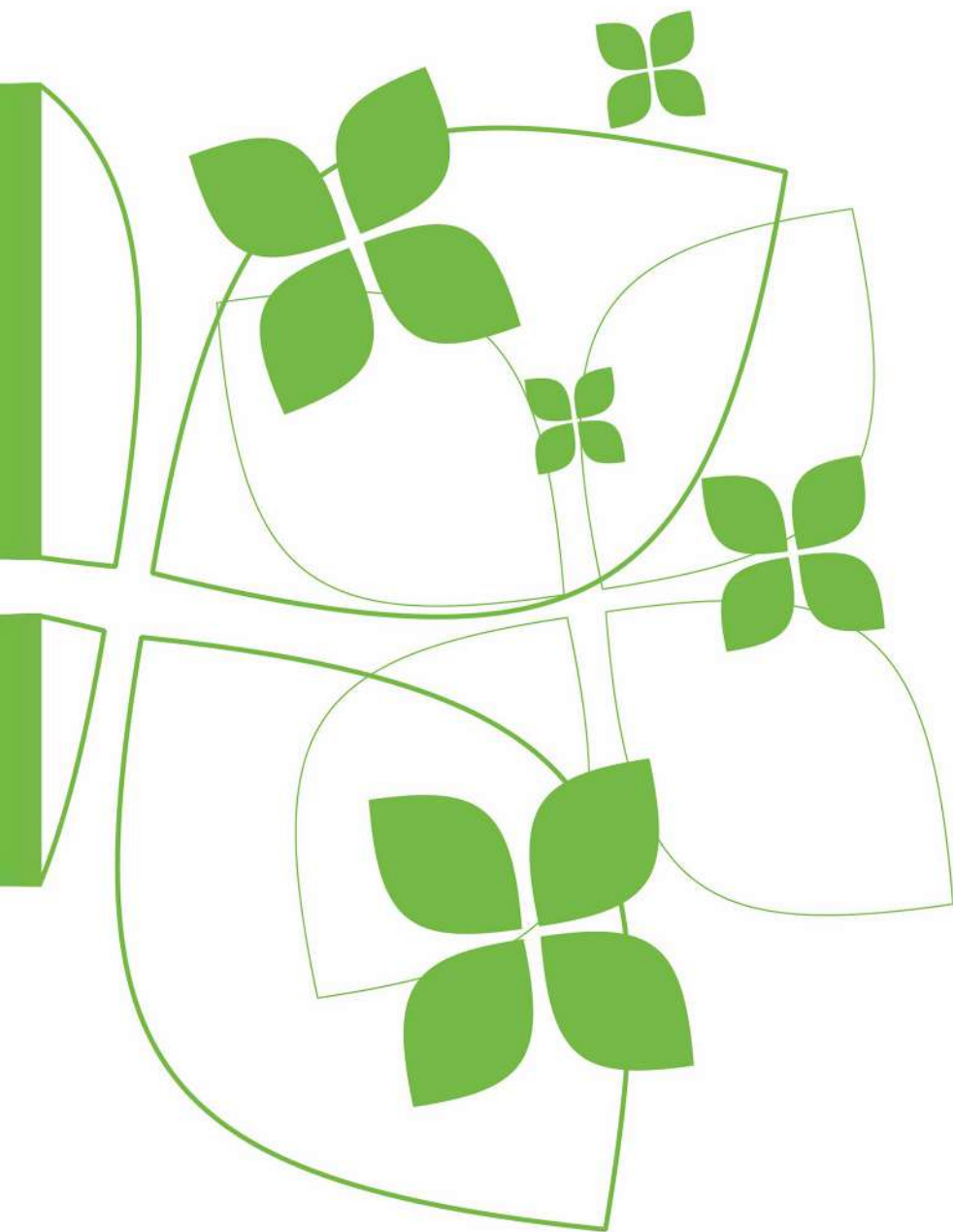
مبيد حشري، مبيد للقراد، مبيد بيض، مساعد



Dioctyl Behsam

www.alborzbeh.sam.com

Emulsifiable Oil



Fertilizers



Product Name: Sivex NPK (20-20-20)

Constituent Ingredients:

Urea, Potassium Nitrate, Monopotassium Phosphate, Monoammonium Phosphate, Potassium Sulfate, Copper Sulfate, Manganese Sulfate, Iron Sulfate, Zinc Sulfate

Usage Instructions:

This fertilizer acts as a general growth enhancer for both vegetative and generative phases and, due to the presence of microelements, improves crop performance and quality.

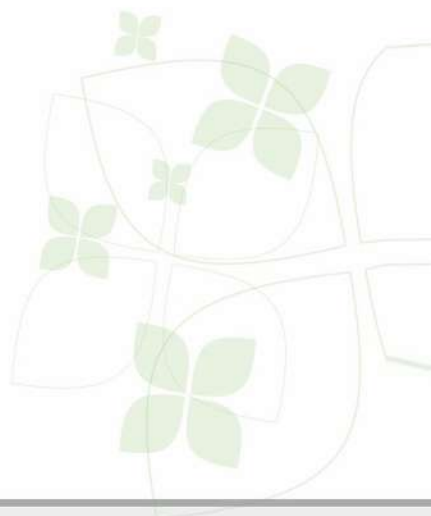
This product boosts the generative and vegetative growth processes of plants. Containing micro-elements, it enhances crop quality and performance.

Element	W/W	Water-Soluble Iron Fe	0.03%
Total Nitrogen N	20%	Water-Soluble Manganese Mn	0.015%
Available Phosphorus P2O5	20%	Water-Soluble Copper Cu	0.01%
Water-Soluble Potassium K2O	20%	Water-Soluble Zinc Zn	0.015%

Crops	Foliar Application (kg/1000 L water)	Irrigation (kg/ha)
Fruit Trees	3-4	15-19
Field Crops	4-5	10-15
Greenhouse Crops	4-5	7-8
Ornamental Plants	4-5	7-8

Название продукта: Сивекс NPK (20-20-20)

اسم المنتج: سيفكس (20-20-20) NPK



Product Name: Sivex NPK (12-10-36)

Constituent Ingredients:

Urea, Monoammonium Phosphate, Potassium Sulfate, Potassium Nitrate, Monopotassium Phosphate, Potassium Carbonate, Zinc Sulfate, Boric Acid, Magnesium Sulfate, Ammonium Molybdate, Iron EDTA, Manganese EDTA, Copper EDTA

Usage Instructions:

This fertilizer contains a higher amount of potassium in its NPK formulation, along with essential trace elements. It supports flower formation, fruit development, and improves plant resistance against pests and diseases, making it highly suitable for orchards, field crops, and greenhouse crops.

Element	W/W	Water-Soluble Potassium K2O	36%	Water-Soluble Zinc Zn	0.09%
Total Nitrogen N	12%	Soluble Boron B	0.096%	Water-Soluble Magnesium Mg	0.2%
Ammonium Nitrogen	9%	Iron EDTA	0.1%	Water-Soluble Molybdenum Mo	0.016%
Urea Nitrogen	3%	Manganese EDTA	0.32%	Solubility	300 g/L
Available Phosphorus P2O5	10%	Copper EDTA	0.12%		

Crops / Plants	Irrigation (per tree / ha)	Foliar (per 1000 L water)
Open-space ornamental trees	100 g per tree	50 g per tree
Crops / Plants	Irrigation (per tree / ha)	Foliar (per 1000 L water)
Fruit trees	15-20 kg/ha per tree	3-4 kg
Vegetables and cucurbits	5-10 kg/ha	3-5 kg
Field crops	15-16 kg/ha	4-5 kg

Название продукта: Сивекс NPK (36-10-12)

اسم المنتج: سيوكس (36-10-12) NPK



Sivex NPK 12-10-36

www.alborzbehamsam.com

Fertilizers



Sivex NPK 13-49-06

info@alborzbehsam.com

Fertilizers



Product Name: Sivex NPK (13-49-06)

Constituent Ingredients:

Urea, Monoammonium Phosphate, Potassium Sulfate, Zinc Sulfate, Boric Acid, Magnesium Sulfate, Ammonium Molybdate, Iron EDTA, Manganese EDTA, Copper EDTA, Magnesium EDTA

Usage Instructions:

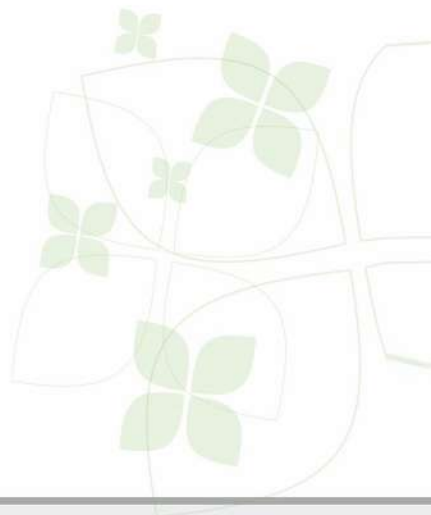
This complete fertilizer contains a high level of phosphorus, essential for plant rooting. The presence of trace elements also supports internal plant processes such as osmotic adjustment.

Element	W/W		
		Manganese EDTA	0.32%
Total Nitrogen N	13%	Copper EDTA	0.12%
Available Phosphorus P2O5	49%	Water-Soluble Zinc Zn	0.09%
Water-Soluble Potassium K2O	6%	Magnesium EDTA	0.2%
Soluble Boron B	0.1%	Water-Soluble Molybdenum Mo	0.016%
Iron EDTA	0.1%	Solubility	300 g/L

Crops	Foliar Application (kg/1000 L)	Irrigation (kg/ha)
Fruit Trees	1.5-3	8-15
Field Crops	3-4	7-10
Greenhouse Crops	1-2	7-10

Название продукта: Сивекс NPK (06-49-13)

اسم المنتج: سيوكس (06-49-13) NPK



Product Name: Majister Organic Fertilizer (Pellets)

Constituent Ingredients:

Diammonium Phosphate, Simple Superphosphate, Humic Acid, Fulvic Acid, Sulfur, Iron Sulfate, Manganese Sulfate, Copper Sulfate, Zinc Sulfate, Ammonium Molybdate, Potassium Sulfate

Usage Instructions:

This organic mixture, containing organic matter, main and trace elements in optimal ratios, prepares the soil for pre-planting and protects plants from nutrient deficiencies during growth.

Element	W/W	Water-Soluble Potassium K2O	4%	Fulvic Acid	2%
Total Nitrogen N	5%	Water-Soluble Sulfur S	3%	Humic Acid	6%
Nitrate Nitrogen	1.35%	Water-Soluble Calcium Ca	1%	Water-Soluble Manganese	0.04%
Ammonium Nitrogen	0.82%	Water-Soluble Iron Fe	0.1%	Water-Soluble Copper	0.06%
Organic Nitrogen	2.83%	Organic Carbon	20%	Water-Soluble Zinc	0.2%
Available Phosphorus P2O5	3%	Organic Matter	46%	Water-Soluble Molybdenum	0.02%

Crops	Application Rate (kg/ha)
Fruit Trees	800-1100
Vegetables and Cucurbits	800-1000
Field Crops	800-1000

Название продукта: Мажистер Гуано Органическое Удобрение (пеллеты)

اسم المنتج: ماجيستر سماد غوانو عضوي (حبوب)



Majister Organic

www.alborzbehamsam.com

Fertilizers



Product Name: Sara enriched organic Liquid

Composition:

Potassium hydroxide, Iron sulfate, Zinc sulfate, Copper sulfate, Manganese sulfate, Magnesium sulfate, Boric acid, Magnesium nitrate, Phosphoric acid, Nitric acid, Calcium hydroxide, Potassium carbonate, Citric acid, Organic matter (chicken manure), Humic acid.

Produced using advanced methods, harmful compounds like ammonia are removed. Supports root development, vegetative growth, fruit size increase, and strengthens cell walls.

Elements (W/W)

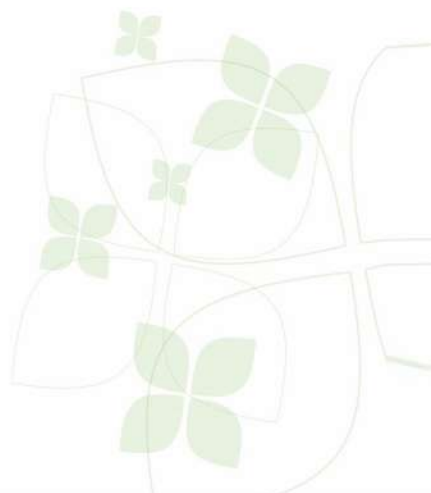
Element	Content		
Total nitrogen (N)	6%	Soluble magnesium (MgO)	0.21%
Available phosphorus (P ₂ O ₅)	3%	Soluble iron (Fe)	0.452%
Soluble potassium (K ₂ O)	3%	Soluble zinc (Zn)	0.186%
Soluble calcium (CaO)	1%	Soluble copper (Cu)	0.12%
Organic matter	18%	Soluble manganese (Mn)	0.25%
Humic acid	5%	Soluble boron (B)	0.15%

Application (Products / Irrigation / Foliar)

Products	Irrigation (L/ha)	Foliar (L/1000 L water)
Orchard crops & trees	10-20	5-7
Field crops & vegetables	10-20	3-5
Ornamental flowers & plants	1.5-2	2-4

Название продукта: Сара Жидкое Удобрение Гуано

اسم المنتج: سارا سماد غوانو سائل



Product Name: Ultrafort PK 5-57

Description:

This product increases the activity of the Krebs and Calvin cycles, affecting the reproductive growth phase. Phosphorus promotes fine root development, improving water and nutrient uptake, ultimately increasing crop yield and quality. Potassium enhances plant resistance to environmental stress and some pathogens.

Element	W/W
Available Phosphorus P2O5	5%
Water-Soluble Potassium K2O	57%
pH in 0.1% solution	3.9

Application Rate	Timing	Crop Type
200 g/tree soil drench; 1.5-2.5 kg/ha irrigation; 1 kg/ha foliar spray	30-45 days before harvest, twice	Fruit trees
0.5-1.5 kg/ha irrigation	Last 2 weeks of flowering, twice	Ornamental plants
2-3 kg/ha irrigation	15-30 days before harvest, twice	Vegetables, cucurbits, melons

Название продукта: ПК Ультрафорт (Метаболический Активатор 57-5)

اسم المنتج PK: انترافورت (منشط أيضي 57-5)



Ultrafort PK 5-57

www.alborzbeh.sam.com

Fertilizers



Product Name: Green Power Iron Chelate (6% Iron)

Role of Iron in Plants:

Iron plays a key role in chlorophyll and chloroplast production, nitrogen stabilization, and protein synthesis. It promotes leaf and branch growth, increases fruit size, and enhances coloration.

Signs of Iron Deficiency:

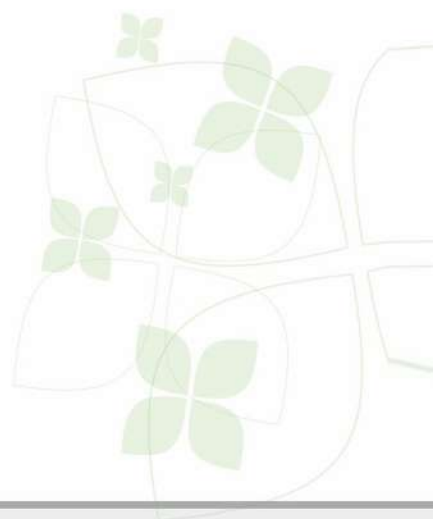
Typical symptoms include interveinal chlorosis, yellowing of leaves, reduced leaf and fruit size, and pale fruit. Severe deficiency may lead to leaf whitening and necrosis of fruit tissues, resulting in growth inhibition. Iron deficiency is common in alkaline and calcareous soils and has an inverse relationship with phosphorus and calcium uptake.

W/W	Element
6%	Water-Soluble Iron
3/6%	Ortho-Ortho EDDHA Iron
7-9	pH

Application Frequency	Irrigation (kg/ha)	Soil Drench (kg/tree)	Crop Type
Soil drench: once at start of growth season; Irrigation: 2 times in spring and early summer	1.5-2 kg/ha	50-100 g per tree age	Orchard crops
Once in spring or early summer	2-3 kg/ha	200 g per 1000 m ²	Field crops

Название продукта: Грин Пауэр Хелат Железа (6% железа)

اسم المنتج: جرين باور شيلت الحديد (6% حديد)



Product Name: Ferro Kevin Iron Chelate

W/W	Element		
6%	Water-Soluble Iron	2%	Ortho-Ortho EDDHA Iron

Role of Iron in Plants:

Iron is crucial for chlorophyll production, chloroplast formation, nitrogen stabilization, and protein synthesis. It also promotes leaf and branch growth, fruit size, and coloration.

Signs of Iron Deficiency:

Typical symptoms include interveinal chlorosis, yellowing leaves, reduced leaf and fruit size, pale fruit coloration, and in severe cases, necrosis and whitening of leaves and fruit. Iron deficiency is common in alkaline and calcareous soils and is inversely affected by phosphorus and calcium levels.

Mature Plant	Young Plant (Seedling)	Crop Type
100-120 g	50-60 g	Peach, Nectarine, Plum, Apricot, Almond
80-100 g	30-50 g	Apple, Pear, Grape, Banana
100-150 g	50-70 g	Citrus
30-50 g	5-15 g	Tropical Fruits
15-30 g	10-20 g	Vegetables and Cucurbits
15-30 g	10-20 g	Strawberry
10-15 g	5-10 g	Ornamental Plants
30-50 g	20-40 g	Field Crops
20-40 g	15-30 g	Saffron
35-50 g	20-40 g	Pistachio
40-75 g	30-50 g	Pomegranate

Название продукта: Ферроцин Хелат Железа

اسم المنتج: فيروسين شيلات الحديد



Fertilizers

www.alborzbehamsam.com



Product Name: Fenix Silver Super Humate

Description:

This product is composed of effective natural-origin compounds (organic materials, peat) and natural growth stimulants such as humic acids, amino acids, succinic acid, etc.

Benefits:

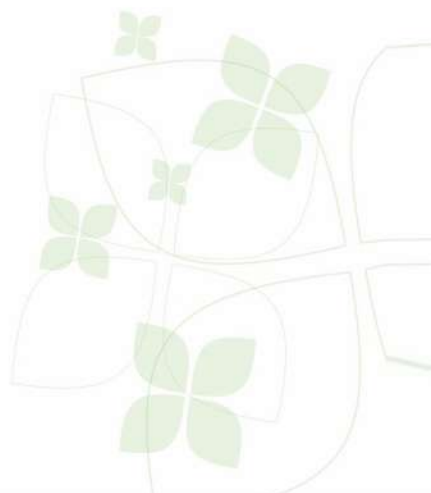
- Improves physiological and biochemical processes
- Increases photosynthesis and metabolism at the cellular level
- Enhances soil microflora activity

Element	W/W	Water-Soluble Copper	0.4%	Water-Soluble Iron	0.1%
Total Nitrogen N	1.81%	Soluble Boron B	0.02%	Water-Soluble Manganese	0.1%
Available Phosphorus P2O5	1.65%	Water-Soluble Molybdenum	0.02%	Water-Soluble Calcium CaO	0.5%
Water-Soluble Potassium K2O	2.18%	Water-Soluble Magnesium MgO	0.1%	Fulvic Acid	4.8%
Water-Soluble Sulfur SO3	1.19%	Water-Soluble Zinc	0.03%	Humic Acid	16.3%

Application Method	Dosage
Foliar Spray	1-1.5 L + 1000 L water per ha
Flood Irrigation	2-3 L per ha
Seed Treatment	1-1.5 L per 1 ton of seeds

Название продукта: Феникс Сильвер Супер Гумат

اسم المنتج: فینیکس سیلفر سوپر هیومات



Product Name: Fenix Silver Super Organic

Description:

This fertilizer contains nitrogen, phosphorus, potassium, humic acid, sulfur, and peat. It improves physiological and biochemical processes, increases photosynthesis and cell metabolism, and enhances soil microflora activity.

Element	W/W				
		Water-Soluble Copper	0.02%	Water-Soluble Iron	0.84%
Total Nitrogen N	5.04%	Soluble Boron B	0.02%	Water-Soluble Manganese	0.08%
Available Phosphorus P2O5	3.8%	Water-Soluble Molybdenum	0.05%	Water-Soluble Calcium CaO	0.4%
Water-Soluble Potassium K2O	5%	Water-Soluble Magnesium MgO	0.18%	Fulvic Acid	4.3%
Water-Soluble Sulfur SO3	0.48%	Water-Soluble Zinc	0.43%	Humic Acid	11.7%

Dosage / Application Method

1-1.5 L per 1000 L water at start and end of season (foliar spray)

2-4 L/ha at start of season (flood irrigation)

1-2 L/ha (drip irrigation)

1 L per 1 ton of seeds (seed treatment)

Название продукта: Феникс Сильвер Супер Органик

اسم المنتج: فینیکس سیلفر سوپر اورگانیک



Fenix Silver Super Organic

www.alborzbehamsam.com

Fertilizers



Product Name: Fenix Silver Mineral Magic

Composition: Calcium, Urea, Fulvic Acid, Humic Acid

Description:

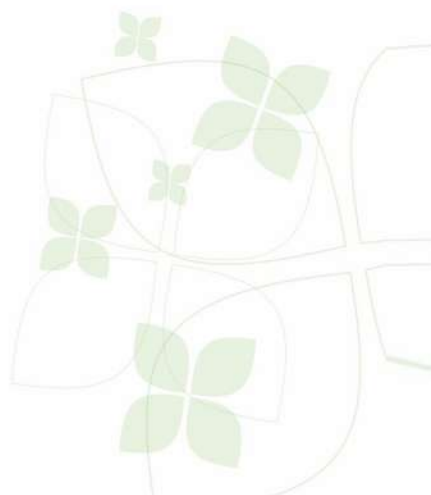
This Phenix growth booster contains humic and fulvic acids. Besides positive effects on plant growth traits, it enhances nutrient absorption around fine roots, improving plant efficiency, yield, and quality.

Element	W/W
Total Nitrogen N	2.5%
Humic Acid	1.4%
Fulvic Acid	4.3%

Application Rate	Application Method
330 g in 250 L water per hectare	Foliar spray

Название продукта: Феникс Сильвер Минерал Мэджик

اسم المنتج: فینیکس سیلفر مینیرال ماجیک



Product Name: fenix Peat

Description:

Peat is a multifunctional cultivation medium with physical, chemical, and biological properties that boost seedlings and ornamental plants. By combining with nutrients, peat acts as a growth booster for greenhouse and ornamental crops. Mixing peat with coco peat, perlite, and vermicompost produces an optimal growth medium with proper nutrition and drainage.

Название продукта: Феникс Торф

اسم المنتج: فينكس بيت



fenix Peat

www.alborzbehamsam.com

Fertilizers



Product Name: Biomond Liquid Calcium Nitrate

Composition: Calcium Nitrate, Boric Acid

Description:

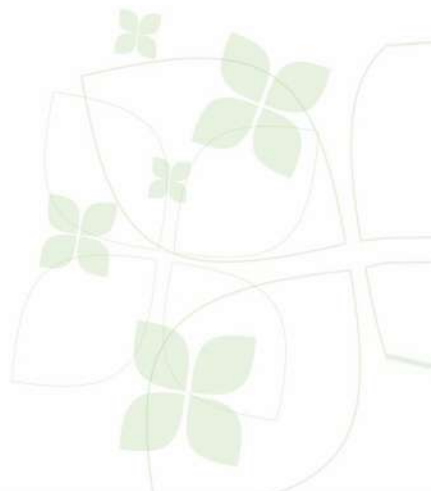
This fertilizer corrects calcium deficiency and, due to boron content, supports fruit coloring, vigor, and greenness. It can be applied in the growing season (spring to mid-summer) and for some crops in early fall.

Element	W/W
Total Nitrogen N	8%
Water-Soluble Calcium Ca	12%
Water-Soluble Boron B	1%

Irrigation Rate (L/ha)	Foliar Spray (L/1000 L water)	Crop Type
6-8	4-5	Fruit trees
5-7	3-4	Field crops

Название продукта: Биомонд Жидкая Кальциевая Селитра

اسم المنتج: بيوموند تترات الكالسيوم السائلة



Product Name: Biomond Calcium Nitrate

Composition: Calcium Nitrate

Description:

This product is a reliable calcium source that strengthens fruit tissue, prevents blossom-end rot in pomegranate and watermelon, and enhances resistance to sucking pests like aphids by reinforcing cell walls.

Element	W/W
Total Nitrogen N	15.5%
Nitrate Content	14.5%
Water-Soluble Calcium Ca	19%
Sodium Na	1%
pH	6

Application (kg)	Field Crops	Fruit Trees	Vegetables
Soil Application	50-100	100-150	60-120
Irrigation Fertilizer	4-8	8-12	3-8
Foliar Spray (L/1000 L)	1-3	2-4	1-3

Название продукта: Биомонд Кальциевая Селитра

اسم المنتج: بيوموند نترات الكالسيوم



Biomond Calcium Nitrate

www.alborzbeh.sam.com

Fertilizers



Product Name: Indogulf Humico

Composition: Humic Acid, Fulvic Acid, Potassium Hydroxide, Iron Sulfate, Urea Phosphate

Description:

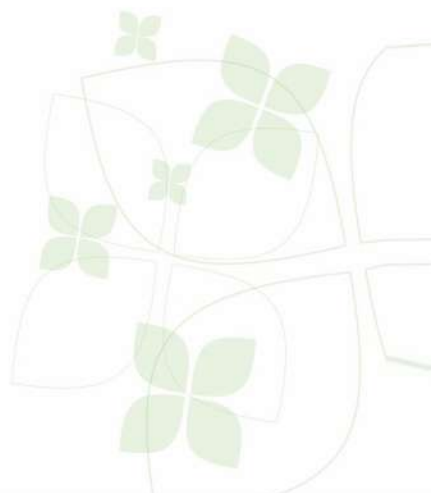
Rich in iron and organic acids, this fertilizer promotes greening, fruit size, yield, and strengthens vegetative and reproductive systems. It also improves soil microbiology and root nutrient absorption.

Element	W/W	Water-Soluble Iron	0.15%
Total Nitrogen N	3%	Organic Matter	10%
Available Phosphorus P2O5	3%	Water-Soluble Humic Acid	10%
Water-Soluble Potassium K2O	5%	Water-Soluble Fulvic Acid	4%

Irrigation (L/ha)	Foliar Spray (L/ha)	Seed Treatment (L/kg seed)	Crop Type
45 (3 applications)	1-1.25	0.25-1	Field crops
6-8 per application	1.25-2.5	-	Orchards
5-7 per application	1.25-2.5	-	Vegetables

Название продукта: Индогальф Хумико

اسم المنتج: إندوجلف هوميكو



Indogulf Humico

info@alborzbehsam.com

Fertilizers

Product Name: Matador Fer green 4.8% BioGreen Spain (EDDHA Iron)

Role of Iron in Plants:

Iron is essential for chlorophyll and chloroplast production, nitrogen stabilization, and protein synthesis. Promotes branch and leaf growth, fruit size, and coloration.

Iron Deficiency Symptoms:

Chlorosis, yellowing, reduced fruit and leaf size, pale fruits. Severe deficiency can lead to necrosis and whitening of leaves and fruits. Iron deficiency is common in alkaline soils and inversely related to phosphorus and calcium.

Mature Plant (g)	Young Plant (g)	Crop Type
100-120	50-60	Peach, Nectarine, Plum, Apricot, Almond
80-100	30-50	Apple, Pear, Grape, Banana
100-150	50-70	Citrus
30-50	5-15	Tropical Fruits
15-30	10-20	Vegetables, Cucurbits
15-30	10-20	Strawberry
10-15	5-10	Ornamental Plants
30-50	20-40	Field Crops
20-40	15-30	Saffron
35-50	20-40	Pistachio
40-75	30-50	Pomegranate

Название продукта: Матадор Фергрин 8/4% BioGreen Испания (EDDHA Железо)

اسم المنتج: ماتادور فيرجرين ٨/٤% BioGreen إسبانيا (EDDHA حديد)



Matador Fer green 4.8%

www.alborzbeh.sam.com

Fertilizers



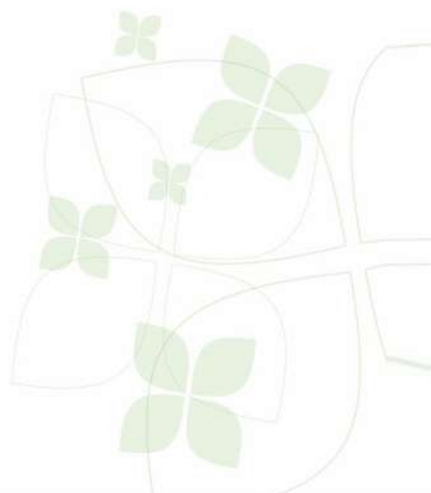
Product Name: Matador Fer green 3.5% BioGreen Spain (EDDHA Iron)

Same composition, role, and deficiency signs as above.

Mature Plant (g)	Young Plant (g)	Crop Type
100-120	50-60	Peach, Nectarine, Plum, Apricot, Almond
80-100	30-50	Apple, Pear, Grape, Banana
100-150	50-70	Citrus
30-50	5-15	Tropical Fruits
15-30	10-20	Vegetables, Cucurbits
15-30	10-20	Strawberry
10-15	5-10	Ornamental Plants
30-50	20-40	Field Crops
20-40	15-30	Saffron
35-50	20-40	Pistachio
40-75	30-50	Pomegranate

Название продукта: Матадор Ферргрин 3.5% BioGreen Испания (EDDHA Железо)

اسم المنتج: ماتادور فيرجرين ٣.٥% BioGreen إسبانيا (حديد EDDHA)



Product Name: Apache Liquid Humic Acid

Composition: Humic Acid, Fulvic Acid, Potassium Hydroxide, Iron Sulfate, Urea Phosphate

Description:

Similar to Humico Indogulf, promotes greening, fruit size, yield, vegetative and reproductive development, and enhances soil microbiology and nutrient absorption.

Element	W/W	Water-Soluble Iron	0.15%
Total Nitrogen N	3%	Organic Matter	10%
Available Phosphorus P2O5	3%	Water-Soluble Humic Acid	10%
Water-Soluble Potassium K2O	5%	Water-Soluble Fulvic Acid	4%

Irrigation (L/ha)	Foliar Spray (L/ha)	Seed Treatment (L/kg seed)	Crop Type
4-5 (3 applications)	1-1.25	0.25-1	Field crops
6-8 per application	1.25-2.5	-	Orchards
5-7 per application	1.25-2.5	0.25-0.5	Vegetables

Название продукта: Апачи Жидкая Гуминовая Кислота

اسم المنتج: أباتشي حمض الهيوميك السائل



Apache Liquid Humic Acid

www.alborzbehamsam.com

Fertilizers



Product Name: Apache Micromix

Composition: Iron-EDTA, Manganese-EDTA, Copper-EDTA, Zinc-EDTA, Boric acid, Ammonium molybdate

This chelated micronutrient fertilizer provides essential elements (Fe, Mn, Zn, Cu, B, Mo) to meet plant nutritional needs and improve crop quality, particularly for important crops like rice, pistachio, citrus, and dates. It can be mixed with granular or powder fertilizers and applied via hollow pit or foliar spray.

Elements (W/W)

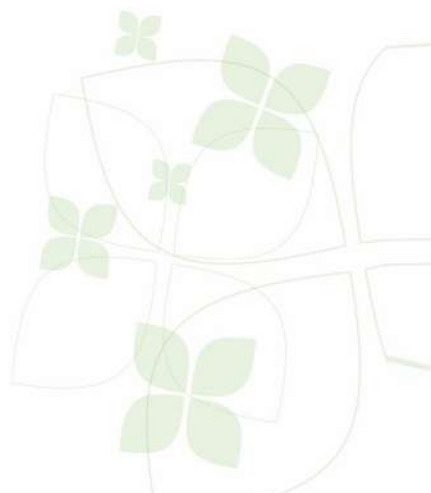
Element	Content
Iron (Fe) chelated with EDTA	6%
Manganese (Mn) chelated with EDTA	3%
Zinc (Zn) chelated with EDTA	3%
Copper (Cu) chelated with EDTA	1%
Soluble Boron (B)	0.5%
Soluble Molybdenum (Mo)	0.2%

Application (Products / Foliar / Fertigation)

Products	Foliar (kg/1000 L)	Fertigation (kg/ha)
Orchard crops	1-2	2-3 (3 times during growth)
Field crops	0.5-1.5	2-3
Greenhouse & hydroponics	0.5-1.5	2-3

Название продукта: Апачи Микромикс

اسم المنتج: آباتشی میکرومیکس



Product Name: Apache Humic Potas

Composition: Fulvic acid, Potassium humate

This product strengthens seedlings, ornamental plants, orchards, and crops due to high humic acid, fulvic acid, and potassium humate content. It can be applied via foliar spray or irrigation, with best results in the growing season. Iron also enhances fruit coloring and plant greenness.

Elements (W/W)

Element	Content
Soluble potassium (K ₂ O)	12%
Fulvic acid	15%
Humic acid	58%
Potassium humate	70%
pH	6.5–7
Moisture	3.5%

Application (kg/ha)

Products	Fertigation
Field crops	2–4
Orchard crops	3–5

Название продукта: Апачи Гумат Калия

اسم المنتج: آباتشي پوتاسيوم هيوميك



Apache Humic Potas

www.alborzbehamsam.com

Fertilizers





Apache PK 6.60

info@alborzbehsam.com

Fertilizers

Product Name: Apache PK 6-60

Composition: Phosphoric acid, Potassium hydroxide

This fertilizer, with high potassium content, supports reproductive growth, protein and enzyme production, stress resistance, disease resistance, and improves soil structure and texture.

Elements (W/W)

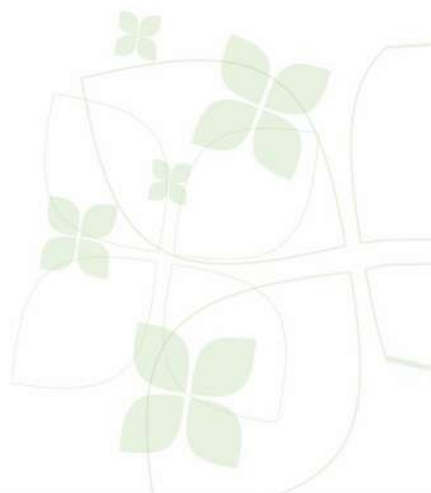
Element	Content
Available phosphorus (P_2O_5)	6%
Soluble potassium (K_2O)	60%
pH (1% solution)	9%

Application (kg/ha or kg/1000 L water)

Product Type	Dosage
Orchard trees	2-3
Melon & cucurbits	1.5/1000 L
Ornamental plants	1.5/1000 L
Vegetables	2

Название продукта: Апаши PK 60-6

اسم المنتج: أباشي PK 60-6



Product Name: Indogulf Micro Mix

Composition: Iron-EDTA, Manganese-EDTA, Copper-EDTA, Zinc-EDTA, Boric acid, Ammonium molybdate

Similar to Micromix Apache, this chelated micronutrient fertilizer is for essential crops like rice, pistachio, citrus, and dates. Can be combined with granular or powder fertilizers; suitable for hollow pit or foliar application.

Elements (W/W)

Element	Content
Iron (Fe) chelated with EDTA	6%
Manganese (Mn) chelated with EDTA	3%
Zinc (Zn) chelated with EDTA	3%
Copper (Cu) chelated with EDTA	1%
Soluble Boron (B)	0.5%
Soluble Molybdenum (Mo)	0.2%

Application (Products / Foliar / Fertigation)

Products	Foliar (kg/1000 L)	Fertigation (kg/ha)
Orchard crops	1–2	2–3 (3 times during growth)
Field crops	0.5–1.5	2–3
Greenhouse & hydroponics	0.5–1.5	2–3

Название продукта: Индогалф Микромикс

اسم المنتج: إندوگلف میکرومیکس



Indogulf Micro Mix

www.alborzbehamsam.com

Fertilizers



Indogulf Humic Potassium Fulvic 95%

info@alborzbehsam.com

Fertilizers

Product Name: indogulf Humic Potassium

Composition: Fulvic acid, Potassium humate

This product is very effective for boosting seedlings, ornamental plants, crops, and orchards due to high humic acid, fulvic acid, and humic potassium content. It can be used for foliar spraying or irrigation and is most effective during the growing season. Iron content plays a key role in fruit coloring and plant freshness.

Elements (W/W)

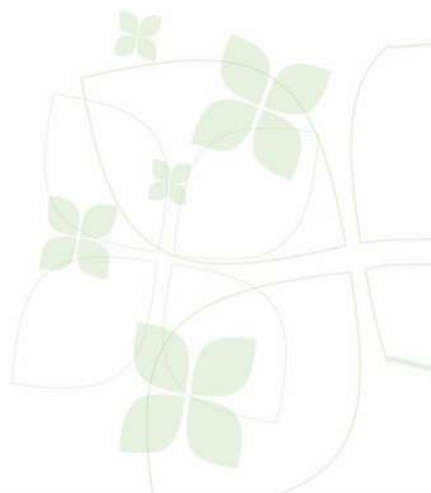
- Soluble potassium (K_2O): 12%
- Fulvic acid: 15%
- Humic acid: 58%
- Humic potassium: 70%
- pH: 6.6–6.7
- Moisture: 3.5%

Application

Application (kg/ha)	Products
2–4	Field crops
3–5	Orchard crops

Название продукта: Индогалф Гумат Калия

اسم المنتج: إندوگلف بوتاسیوم هیومیک



Product Name: Phytomax Mono Potassium Phosphate

Composition: Potassium hydroxide, Phosphoric acid

This fertilizer mixture, containing suitable amounts of potassium and phosphorus, supports root development, reproductive growth of flowers and fruits, and enhances resistance to stresses, diseases, and pests. The nitrogen in this fertilizer is in ammonium form, providing good stability in soil and increased availability for plants.

Elements (W/W)

- Soluble phosphate (P_2O_5): $\geq 52\%$
- Soluble potassium (K_2O): $\geq 34\%$
- Particle size 0.5–5 mm: $\geq 90\%$
- Maximum moisture: 0.5%

Application (Products / Foliar / Fertigation)

Products	Foliar (kg/ha)	Fertigation (kg/ha)
Field crops	1–2	8–12
Orchard crops	1–4 per 1000 L water	15–30

Название продукта: Фитомакс Монокалий Фосфат

اسم المنتج: فيتومكس فوسفات البوتاسيوم الاحادي



Phytomax Mono Potassium Phosphate

www.alborzbeh.sam.com

Fertilizers



Product Name: Phytomax Mono Ammonium Phosphate

Composition: Mono Ammonium Phosphate

Description:

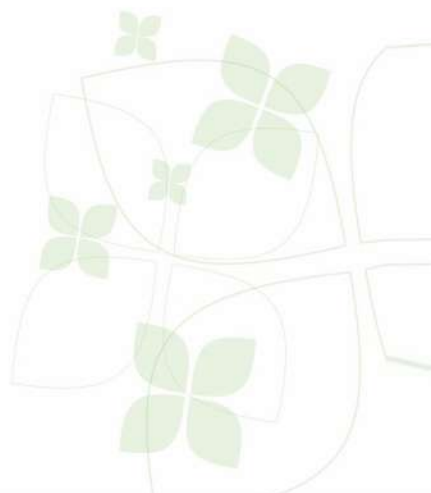
Provides nitrogen and phosphorus for root, leaf, and stem development. Suitable for late-release fertilization in spring and fall. Can be used in alkaline and calcareous soils.

Element	W/W
Ammoniacal Nitrogen N	12%
Water-Soluble Phosphate P2O5	61%
Particle Size 1-2 mm	90%
Maximum Moisture	1%

Crop Type	Foliar Spray (kg/ha)	Irrigation Fertilizer (kg/ha)
Field crops	1-3	2-5
Orchards	1-3	2-5

Название продукта: Фитомакс Моноаммоний Фосфат

اسم المنتج: فیتومکس فوسفات الأمونيوم الأحادي



Product Name: Phytomax Zinc Sulfate

Composition: Zinc sulfate

This fertilizer, with sufficient soluble zinc and proper acidity, plays a key role in color development, reproductive processes, and improving fruit size and quality. Zinc also supports the formation of plant hormones and proteins.

Specifications

- Soluble zinc (Zn): $\geq 33\%$
- pH: ≥ 4
- Insoluble matter: $\leq 1\%$

Application (Foliar / Fertigation / Products)

Foliar (kg/ha)	Fertigation (kg/ha)	Products
9–12	3–4	Field crops
100–150 g/tree	3–5	Orchard crops

Название продукта: Фитомакс Сульфат Цинка

اسم المنتج: فيتومكس كبريتات الزنك



Phytomax Zinc Sulfate

www.alborzbehamsam.com

Fertilizers



Phytomax Urea Phosphate 18-44-0

info@alborzbehsam.com

Fertilizers



Product Name: Phytomax Urea Phosphate

Composition: Phosphoric Acid, Urea

Description:

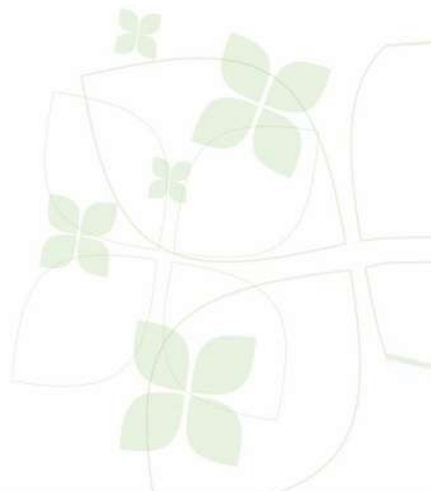
Phosphorus promotes root growth and nutrient absorption; urea supports vegetative growth of leaves, branches, and trunk. Effective in alkaline soils. Can be applied as soil drench, irrigation, or foliar spray in spring and fall.

Element	W/W
Total Nitrogen N	18%
Water-Soluble Phosphate P2O5	44%
pH of 10% solution	2-2.5
Maximum Moisture	0.5%
Particles 1-4 mm	90%

Foliar Spray (kg/ha)	Soil Drench/Irrigation (kg/ha)	Crop Type
8-10	3-6	Field crops
10-15	3-6	Orchards

Название продукта: Фитомакс Фосфат Мочевины

اسم المنتج: فيتومكس فوسفات اليوريا



Product Name: Phytomax Soil pH Regulator

Composition: Phosphoric acid, Nitric acid

This fertilizer, containing nitrogen and sulfur, enhances nutrient absorption, stabilizes soluble compounds, regulates soil pH, stimulates microbial activity, and improves soil physical and chemical properties. Sulfur content also provides disinfection against fungal and bacterial diseases.

Elements

W/V	W/W	Element
1%	1%	Total nitrogen
15%	12%	Soluble sulfur

Application

Rate	Method
3-4 L/ha	Drip irrigation
5-7 L/ha	Flood irrigation

Название продукта: Фитомакс Регулятор pH Почвы

اسم المنتج: فيتومكس منظم حموضة التربة



Phytomax Soil pH Regulator

www.alborzbehnam.com

Fertilizers



Phytomax Potassium Sulfate 0-0-50

info@alborzbehsam.com

Fertilizers



Product Name: Phytomax Potassium Sulfate (Solo-Potass)

Composition: Potassium Sulfate, Sulfur.

Description:

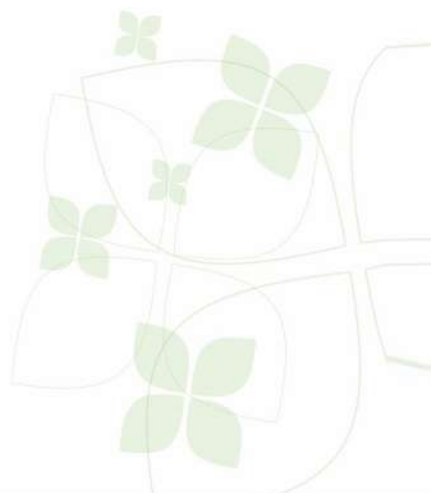
High potassium content boosts yield, stress resistance, pest and disease resistance, and fruit quality. Sulfur improves fruit vigor, size, and helps prevent fungal and bacterial infections.

Element	W/W
Water-Soluble Potassium K2O	50%
Water-Soluble Sulfur SO3	17.5%
Maximum Moisture	1.5%

Foliar Spray (kg/ha)	Irrigation (kg/ha)	Crop Type
3-4	20-25	Fruit Trees
1-2	10-15	Vegetables
2-3	15-20	Field Crops

Название продукта: Фитомакс Сульфат Калия (Соло-Потасс)

اسم المنتج: فیتومکس کبریتات البوتاسیوم (سولو-بوتاس)



Product Name: Phytomax Anti-Salt

Composition: Calcium nitrate

Soil salinity limits agricultural production, mainly due to sodium chloride. Salinity negatively affects nutrient absorption and soil structure. This fertilizer, with soluble calcium, reduces soil salinity and is useful for fields and orchards with alkaline soils and high sodium levels.

Elements

W/V	W/W	Element
6%	0.5%	Soluble calcium

Application

EC Dependent	Rate (L/ha)	Products
-	10-15	Field & ornamental crops
-	20-25	Orchard crops

Название продукта: Фитомакс Анти-Солёность

اسم المنتج: فيتومكس مضاد الملوحة



Phytomax Anti-Salt

www.alborzbeh.sam.com

Fertilizers



Product Name: Phytomax Suspension for seed treatment (Zinc & Phosphorus)

Composition: Zinc Oxide, Phosphoric Acid

Description:

A root enhancer due to phosphorus, beneficial for seedlings and seeds of vegetables and crops. Zinc promotes germination and early growth.

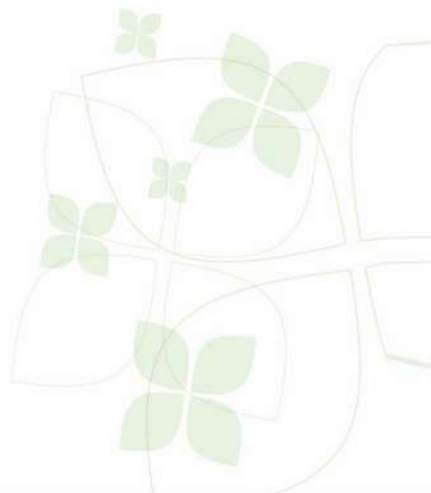
Element	W/W
Total Phosphorus P ₂ O ₅	10%
Total Zinc Zn	10%
Density	1.3 g/cm ³

Application Instructions:

Crop Type	Dosage (L/ton seed)
Small-grain cereals (wheat)	3-4
Large-grain cereals (corn)	4-5
Oil seeds	3-4
Legumes	4-5

Название продукта: Фитомакс Обработка Семян (сuspension цинка и фосфора)

اسم المنتج: فيتومكس معالجة البذور (تعليق الزنك والفوسفور)



Product Name: Phytomax Powder Potassium Silicate

Composition: Potassium silicate, Potassium carbonate

Effective against environmental stresses and pathogens, while potassium supports yield and propagation. Can be applied to rice, wheat, pistachio, grape, apple, citrus, and prunus crops, also helping combat limiting factors like blast, verticillium, canker, etc.

Elements (W/W)

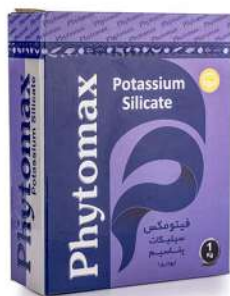
Element	Content
Soluble potassium (K ₂ O)	20%
Soluble silicon (SiO ₂)	32%
Total potassium	25%
Total silicon	54%

Application

Rate	Products
300–400 g / 300 L water / ha	Orchard & field crops

Название продукта: Фитомакс Порошковый Силикат Калия

اسم المنتج: فيتومكس سيليكات البوتاسيوم المسحوق



Phytomax Powder Potassium Silicate

www.alborzbeh.sam.com

Fertilizers



Product Name: Phytomax Fish Fertilizer

Composition: Fish extract, macro & microelements

Made from fish residues with proper technology, affordable, suitable for orchards, crops, and melon fields. Improves soil properties like pH and cation exchange capacity (CEC).

Elements (W/W)

Element	Content		
Total nitrogen (N)	8%	Organic matter	33%
Available phosphorus (P ₂ O ₅)	8%	Soluble iron (Fe)	0.2%
Soluble potassium (K ₂ O)	8%	Soluble zinc (Zn)	0.2%
Soluble magnesium (MgO)	0.15%	Soluble copper (Cu)	0.25%
Soluble calcium (CaO)	3%	Soluble manganese (Mn)	0.1%
		Soluble boron (B)	0.12%

Application

Method	Rate (L/ha)	Products
Irrigation	10–15	Field, orchard, greenhouse, ornamental
Foliar	7–9/1000 L	Field, orchard, greenhouse, ornamental

Название продукта: Фитомакс Рыбное Удобрение

اسم المنتج: فیتومکس سماد السمک



Product Name: Phytomax 20-20-20 NPK

Composition: Potassium nitrate, Mono potassium phosphate, Mono ammonium phosphate, Urea, Potassium sulfate, Copper sulfate, Iron sulfate, Manganese sulfate, Zinc sulfate
Balanced NPK with chelated micronutrients, effective during vegetative growth. Can be applied via foliar, irrigation, or hallow fertilization. Compatible with granules or powders.

Elements (W/W)

Element	Content		
Total nitrogen (N)	20%	Soluble iron (Fe)	0.03%
Available phosphorus (P ₂ O ₅)	20%	Soluble manganese (Mn)	0.15%
Soluble potassium (K ₂ O)	20%	Soluble zinc (Zn)	0.15%
Soluble copper (Cu)	0.01%	Solubility (g/L)	200

Application (Products / Foliar / Fertigation)

Products	Foliar (kg/1000 L water)	Fertigation (kg/ha)
Orchard crops	3-4	15-20
Field crops	4-5	10-15
Greenhouse crops	4-5	7-8
Ornamental plants	4-5	7-8

Название продукта: Фитомакс NPK (20-20-20)

اسم المنتج: فيتومكس (20-20-20) NPK



Phytomax 20-20-20 NPK

www.alborzbehamsam.com

Fertilizers



Product Name: Phytomax 13-49-6 NPK

Composition:

Urea, Monoammonium phosphate, Potassium sulfate, Zinc-EDTA, Copper, Boric acid, Ammonium molybdate, Manganese-EDTA, Iron-EDTA, Magnesium-EDTA.

This fertilizer, with a higher phosphorus ratio combined with nitrogen, potassium, and micronutrients in chelate form, can correct phosphorus deficiency in a wide range of crops such as rice, citrus, and summer vegetables. It can be used as a slow-release fertilizer in fall and spring hollow fertilizing and via foliar spraying in annual nutrient programs.

Elements (W/W)

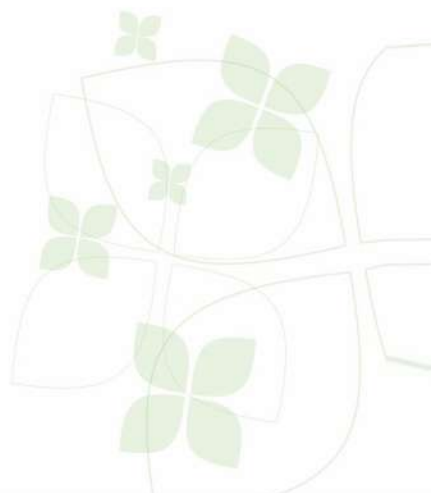
Element	Content		
Total nitrogen (N)	13%	Manganese (Mn) chelated with EDTA	0.32%
Available phosphorus (P_2O_5)	49%	Zinc (Zn) chelated with EDTA	0.09%
Soluble potassium (K_2O)	6%	Soluble molybdenum	0.0016%
Soluble boron (B)	0.01%	Magnesium (Mg) chelated with EDTA	0.2%
Iron (Fe) chelated with EDTA	0.1%	Copper (Cu) chelated with EDTA	0.12%
		Solubility (g/L)	300

Application (Products / Foliar / Fertigation)

Products	Foliar (kg/1000 L water)	Fertigation (kg/ha)
Orchard crops	1.3-5	8-15
Field crops	3-4	7-10
Greenhouse crops	1-2	7-10

Название продукта: Фитомакс NPK (13-49-6)

اسم المنتج: فیتو مکس (13-49-6) NPK



Product Name: Phytomax 35-5-5 NPK

Composition: Potassium nitrate, Mono potassium phosphate, Mono ammonium phosphate, Urea, Potassium sulfate, Copper sulfate, Iron sulfate, Manganese sulfate, Zinc sulfate

This complete fertilizer with higher nitrogen and chelated micronutrients supports vegetative growth of fruits, leaves, and branches and initiates nutrient processes in spring. Suitable for early-stage crops, seedlings, and fall hollow fertilization.

Elements (W/W)

Element	Content
Total nitrogen (N)	35%
Available phosphorus (P ₂ O ₅)	5%
Soluble potassium (K ₂ O)	5%
Solubility (g/L)	200

Application (Products / Foliar / Fertigation)

Products	Foliar (kg/1000 L)	Fertigation (kg/ha)
Ornamental trees/shrubs	100 g/tree	50 g/tree
Orchard trees	2-3	10-15
Field crops	2.5-3	8-10
Greenhouse & hydroponics	1.5-2	7-10

Название продукта: Фитомакс NPK (35-5-5)

اسم المنتج: فيتومكس (35-5-5) NPK



Phytomax 35-5-5 NPK

www.alborzbehamsam.com

Fertilizers



Product Name: Phytomax 15-5-30 NPK

Composition: Potassium nitrate, Mono potassium phosphate, Mono ammonium phosphate, Urea, Potassium sulfate, Copper sulfate, Iron sulfate, Manganese sulfate, Zinc sulfate

This popular NPK formula is effective in both vegetative and reproductive phases. Promotes explosive leaf and flower growth, larger fruit size, higher yield, and, due to chelated micronutrients, improves fruit coloring and quality.

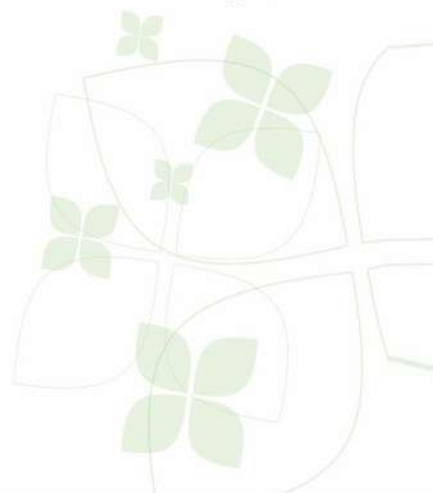
Elements (W/W)

Element	Content
Total nitrogen (N)	15%
Available phosphorus (P ₂ O ₅)	5%
Soluble potassium (K ₂ O)	30%
Soluble copper (Cu)	0.01%
Soluble iron (Fe)	0.03%
Soluble manganese (Mn)	0.15%
Soluble zinc (Zn)	0.15%
Solubility (g/L)	300

Application (Products / Foliar / Fertigation)

Products	Foliar (kg/1000 L)	Fertigation (kg/ha)
Orchard crops	1-2	10-15
Field crops	1.5-2.5	8-10
Greenhouses	0.5-1.5	7-10

اسم المنتج: فیتومکس (15-5-30) NPK



Product Name: Phytomax Liquid Potassium Silicate

Composition: Potassium silicate, Potassium carbonate

This mixture, containing silicon and potassium, helps plants resist environmental stresses (cold, heat, drought, salinity) and pathogens, while potassium also improves yield and propagation.

Elements (W/W)

Element	Content
Soluble potassium	11%
Soluble silicon	24%

Application (Stage / Irrigation / Foliar / Product)

Stage	Irrigation (L/ha)	Foliar (L/ha)	Product
Mid to late growth	4-5	2-3	Orchard trees
Flowering, mid growth, harvest	2-3	1-2	Vegetables, melons, ornamental

Название продукта: Фитомакс Жидкий Силикат Калия

اسم المنتج: فيتومكس سيليكات البوتاسيوم السائل



Phytomax Liquid Potassium Silicate

www.alborzbeh.sam.com

Fertilizers



Product Name: Phytomax Iron Fertilizer (6% Fe Gluconate Chelate)

Composition: Potassium carbonate

Iron content:

- Fe chelated: 5.78%
- Total Fe: 6%
- Soluble Fe: 5.85%

Role in plants: Produces chlorophyll, chloroplasts, stabilizes nitrogen and protein compounds, promotes leaf and branch growth, increases fruit size and coloring.

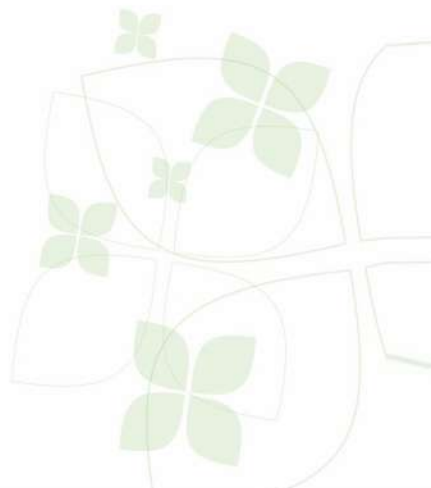
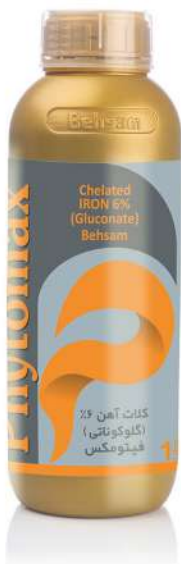
Deficiency symptoms: Yellowing/chlorosis between veins, smaller leaves and fruits, pale fruit; severe deficiency leads to leaf whitening and necrosis. Common in alkaline soils; inversely affected by phosphorus and calcium.

Application (Irrigation / Foliar / Timing / Product)

Irrigation (L/ha)	Foliar (L/1000 L)	Timing	Products
3-5	1-2	Mid-growth & 3 weeks before harvest, 2 applications every 10 days	Field crops
4-6	2-2.5	During growth & 1 month before harvest, 2-3 applications every 15 days	Orchard crops

Название продукта: Фитомакс Железное Удобрение (6% Fe глюконат хелат)

اسم المنتج: فيتومكس سماد الحديد (6% شيلات جلوكونات)



Product Name: Brada Kaolin Silica

Composition: Potassium silicate

This non-toxic, environmentally friendly mineral improves plant strength, cell structure, reduces sucking insect activity, strengthens xylem vessels, reduces lodging, enhances light absorption, protein & chlorophyll synthesis, and protects plants against UVA, UVB, and IR radiation. White coating reduces pest egg-laying and pest populations. Helps mitigate soil toxicity from high Mn, Fe, and Al.

Elements (W/W)

Element	Content
Soluble silicon (Si)	8%
Soluble silicon (SiO ₂)	17%
Soluble potassium (K ₂ O)	2%

Application Instructions:

Mix 25–50 g of Brada powder per liter of water until fully suspended. Spray using a sprayer with a mixer to ensure complete coverage of aerial plant parts until the plant surface appears white.

Название продукта: Брада Каолиновый Силикат (порошковый)

اسم المنتج: برادا كاولين سيليكات (مسحوق)



Brada Kaolin Silica 95% WP

www.alborzbeh.sam.com

Fertilizers



Product Name: Phytomax Liquid Boron with Copper

Composition: Boric acid, Copper chelate

Supports fruit coloring, tissue strength, vegetative growth, quality, and marketability. Boron is key for fruit appearance and price.

Elements (W/W & W/V)

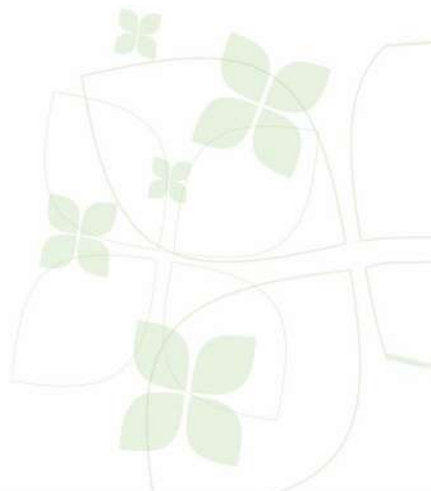
Element	W/W	W/V
Soluble boron (B)	10%	13.5%
Soluble copper (Cu)	1%	1.35%

Application (Foliar / Fertigation)

Products	Foliar (L/1000 L)	Fertigation (L/ha)
Orchard trees	1-2	2-4
Field crops	1-1.5	2-3

Название продукта: Фитомакс Жидкий Бор с Медью

اسم المنتج: فیتومکس بورون سائل مع النحاس



Product Name: Phytomax PK56-12

Composition: Phosphoric acid, Potassium hydroxide

Liquid PK fertilizer for rooting, fertility, quality, nutrient and water absorption, and stress resistance in early plant growth.

Elements (W/W & W/V)

Element	W/W	W/V
Available phosphorus (P_2O_5)	38%	56%
Soluble potassium (K_2O)	8%	12%

Application (Foliar / Fertigation)

Products	Foliar (L/1000 L)	Fertigation (L/ha)
Orchard trees	2-3 (2-3 applications, 10-14 day intervals)	8-10 (late winter & late spring)
Field crops	2-3 (2-3 applications, 7-10 day intervals)	10-14
Vegetables & melons	2-3	10-14
Greenhouse	2-3	10-14

Название продукта: Фитомакс РК 12-56

اسم المنتج: فيتومكس 12-56 PK



Phytomax PK 56-12

www.alborzbeh.sam.com

Fertilizers



Product Name: Phytomax Zinc Suspension

High-soluble zinc corrects zinc deficiency and supports tryptophan synthesis, a precursor for auxin (IAA). Also improves fruit coloring for better marketability.

Elements (W/W & W/V)

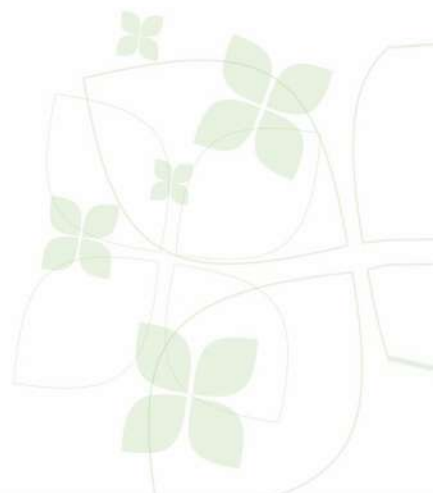
Element	W/W	W/V
Total Zinc	50%	52%

Application

Dosage	Product Type
1 L / 1000 L water	Field & orchard crops

Название продукта: Фитомакс Суспензия Цинка

اسم المنتج: فيتومكس تعليق الزنك



Product Name: Phytomax Sulphur 50% SC

Useful for pistachio and many crops/orchards. Benefits include nitrogen absorption, protein production, seed disinfection, soil pH regulation, and pest/disease control.

Element (W/W)

Element	Content
Sulphur	50%

Application (Soil/Fertigation / Foliar / Product)

Soil/Fertigation (L/ha)	Foliar (L/ha)	Product Type
5-10	1-3	Orchards
4-6	2-4	Field crops
5-10	1-3	Pistachio

Название продукта: Фитомакс Сера SC 50% (суспензия серы)

اسم المنتج: فیتومکس الکبریت (تعليق الکبریت) SC 50%



Phytomax Sulphur 50% SC

www.alborzbehnam.com

Fertilizers



Product Name: Phytomax Sulphur 80% SC

Similar benefits as SC50%, with higher sulphur concentration.

Element (W/W)

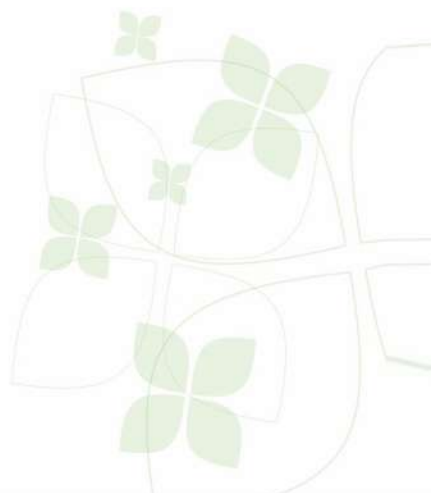
Element	Content
Sulphur	80%

Application (Soil/Fertigation / Foliar / Product)

Soil/Fertigation (L/ha)	Foliar (L/ha)	Product Type
5-10	1-3	Orchards
4-6	2-4	Field crops
5-10	1-3	Pistachio

Название продукта: Фитомакс Сера SC 80% (суспензия серы)

اسم المنتج: فيتومكس الكبريت SC 80% تعليق الكبريت



Product Name: Phytomax 25-25-25 NPK + Micronutrients (Suspension)

Composition: Potassium sulfate, Potassium carbonate, Mono ammonium phosphate, Magnesium sulfate, Fe-EDTA, Zn-EDTA, Mn-EDTA, Cu-EDTA, B-EDTA, Molybdenum

Balanced NPK with chelated micronutrients improves vegetative growth, chlorophyll production, protein synthesis, and phytohormones in citrus, apple, pear, vegetables, and melons. Suitable for hollow pit, foliar spray, and in some cases fertigation.

Elements (W/W & W/V)

Element	W/W	W/V			
Nitrogen (N)	16.5%	25%	Manganese (Mn) chelated EDTA	0.06%	0.09%
Available phosphorus (P ₂ O ₅)	16.5%	25%	Copper (Cu) chelated EDTA	0.06%	0.09%
Soluble potassium (K ₂ O)	16.5%	25%	Zinc (Zn) chelated EDTA	0.02%	0.03%
Iron (Fe) chelated EDTA	0.12%	0.18%	Boron chelated (B)	0.01%	0.015%
			Soluble Molybdenum (Mo)	0.004%	0.006%

Application (Products / Foliar / Fertigation)

Products	Foliar (L/ha)	Fertigation (L/ha)
Field crops	2	2-4
Orchard crops	2-3	2-6
Vegetables	2-3	2-6

Название продукта: Фитомакс 25-25-25 NPK + Микроэлементы (суспензия)

اسم المنتج: فیتومکس ۲۵-۲۵-۲۵ NPK + عناصر صغری (تعليق)



Phytomax NPK 25 - 25 - 25

www.alborzbehamsam.com

Fertilizers



Product Name: Phytomax Phosphorus, Calcium & Boron Suspension

Composition: Phosphoric acid, Mono ethylene glycol, Boric acid, Calcium oxide

This fertilizer combines phosphorus, calcium, and boron to support growth, fruit size, coloring, protein synthesis, hormone and fiber production, and marketability. Boron also enhances synergistic calcium absorption and improves fruit taste and color.

Elements (W/W & W/V)

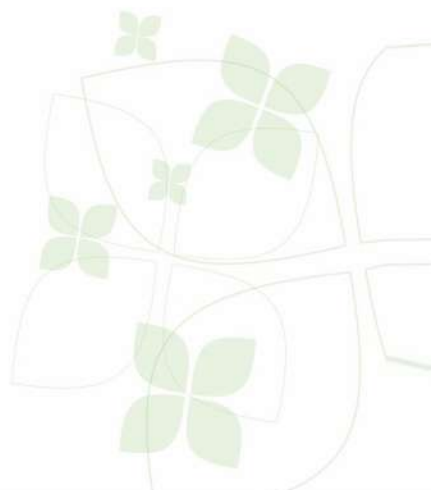
Element	W/W	W/V
Total phosphorus (P ₂ O ₅)	26.56%	36%
Available phosphorus (P ₂ O ₅)	6.7%	1.9%
Total calcium (CaO)	22.14%	30%
Soluble calcium (CaO)	1.8%	4.2%
Total boron (B)	0.42%	0.57%
Soluble boron (B)	0.42%	0.57%

Application (Foliar / Fertigation)

Products	Foliar (L/ha)	Fertigation (L/ha)
Field crops	2–3	5–10
Orchard crops	3–5	10–20

Название продукта: Фитомакс Суспензия Фосфора, Кальция и Бора

اسم المنتج: فيتومكس تعليق الفوسفور والكالسيوم والبورون



Product Name: Phytomax pH Regulator Fertilizer

Composition: Nitrogen, Soluble sulfur

This fertilizer restores saline, barren, and weak soils and enhances micronutrient uptake, especially iron, in greenhouse crops. It also improves soil microorganism activity, nutrient re-absorption, plant metabolism, and overall plant vitality. Phosphorus contributes to nutrient supply and soil regulation.

Elements (W/W & W/V)

Element	W/W	W/V
Total nitrogen (N)	1%	1.3%
Soluble sulfur (S)	12%	15.6%

Application

Method	Product Type
1 L / 1000 L water (irrigation)	All orchard, field, and ornamental crops

Название продукта: Фитомакс Удобрение-регулятор pH

اسم المنتج: فیتومکس سماد منظم الحموضة



Phytomax pH regulator

www.alborzbeh.sam.com

Fertilizers



Product Name: Phytomax Calcium, Zinc & Magnesium

Composition: Calcium carbonate, Zinc oxide, Magnesium carbonate

Supports growth before harvest, enhances enzymes, hormones, tissue strength, and product quality. Flexible application via foliar or fertigation. Calcium strengthens cell walls and protects against sucking pests.

Elements (W/W)

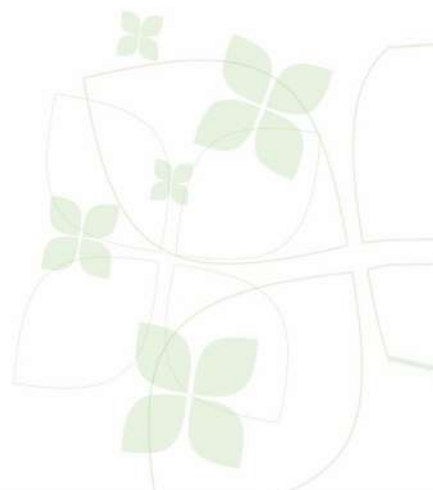
Element	Content
Total calcium (CaO)	14%
Total magnesium (MgO)	2.5%
Total zinc (Zn)	3%

Application (Foliar L/1000 L)

Product	Dosage
Citrus	4
Grapes	3
Pistachio, Pomegranate	3
Field crops	2-3
Tropical fruits	3

Название продукта: Фитомакс Кальций, Цинк и Магний

اسم المنتج: فیتومکس کالسیوم و زنک و مغنسیوم



Product Name: Phytomax Fruit Set

Composition: Mono ammonium phosphate, Zinc chelate, Boron chelate, Copper chelate, Humic acid, Amino acids
Supports flowering, fruit set, and cold-season tree resistance. Improves overall fruit quality and marketability.

Elements (W/W & W/V)

Element	W/W	W/V
Total nitrogen (N)	6%	2.7
Total zinc (Zn)	15%	18
Soluble boron (B)	2%	4.2
Soluble copper (Cu)	0.2%	0.24
Humic acid (HA)	1%	1.4
Amino acids	3%	3.6

Application

Product	Dosage & Timing
Orchard trees	2-3 L/1000 L water, twice (late autumn & late winter or first week of spring before bud swell)

Название продукта: Фитомакс Завязь Плодов

اسم المنتج: فيتومكس تثبيت الثمار



Phytomax fruit set

www.alborzbehamsam.com

Fertilizers



Phytomax fost

info@alborzbehsam.com

Fertilizers

Product Name: Phytomax Fost Fertilizer (Potassium Phosphate)

Composition: Potassium phosphite

Rapidly absorbed by roots, enhances rooting, water and nutrient uptake, and improves flower and fruit production, stress resistance, and disease protection.

Elements (W/W)

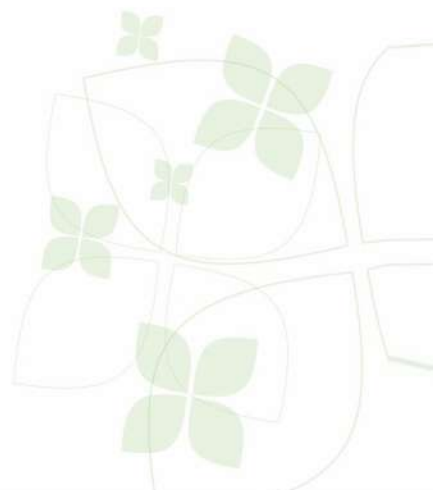
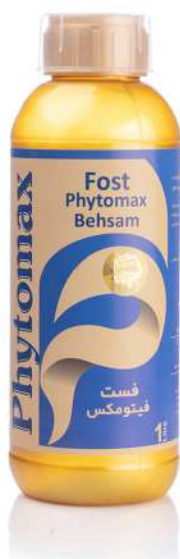
Element	Content
Soluble potassium (K ₂ O)	20%

Application (Foliar / Fertigation)

Products	Foliar (L/1000 L)	Fertigation (L/ha)
Orchard trees	2-3	6-8
Field crops, vegetables, melons	2-3	6-8
Greenhouse, lawns, ornamentals	1-3	6-8

Название продукта: Фитомакс Быстрое Удобрение (фосфит калия)

اسم المنتج: فیتومکس سماد سریع (فوسفیت البوتاسیوم)



Product Name: Phytomax Containing S,K,Cu,Si

Composition: Sulfur, Copper oxide, Potassium silicate

Prevents fungal/bacterial infection and immature pest stages, improves coloring, fruit size, yield, quality, marketability, and stress resistance.

Elements (W/W & W/V)

Element	W/W	W/V
Total potassium (K ₂ O)	2%	2.3%
Total sulfur (S)	8%	9.3%
Total copper (Cu)	8%	9.3%
Total silicon (SiO ₂)	3%	3.5%

Application (Foliar / Fertigation)

Products	Foliar (L/1000 L)	Fertigation (L/ha)
Orchard crops	2-3	4-6
Field crops	2-3	6-8
Greenhouse	2-3	4-6

Название продукта: Фитомакс Суспензия Четырёх Элементов (S, K, Cu, Si)

اسم المنتج: فيتومكس تعليق أربعة عناصر (S, K, Cu, Si)



Phytomax Containing S,K,Cu,Si

www.alborzbehamsam.com

Fertilizers


Product Name: Phytomax 14-52-14 Suspension with Micronutrients

Composition: Potassium nitrate, Monopotassium phosphate, Mono ammonium phosphate, Urea, Potassium sulfate, CuSO_4 , FeSO_4 , MnSO_4 , ZnSO_4

High phosphorus for rooting, chelated micronutrients for coloring, flowering, and product quality, plus free amino acids for stress relief.

Elements (W/W & W/V)

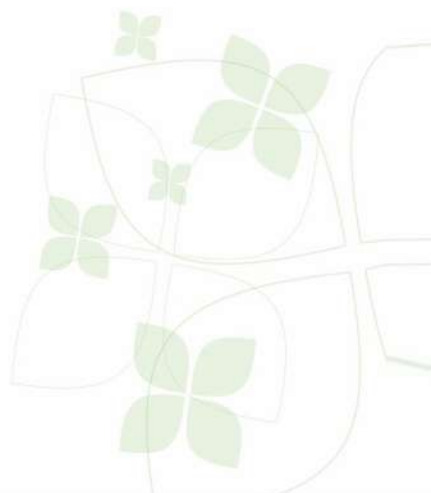
Element	W/W	W/V			
Total nitrogen (N)	10%	14%	Zn chelated (EDTA)	0.04%	0.05%
Total phosphorus (P_2O_5)	37%	52%	Cu chelated (EDTA)	0.07%	0.09%
Total potassium (K_2O)	10%	14%	B chelated (EDTA)	0.15%	0.2%
Fe chelated (EDTA)	0.04%	0.05%	Soluble Mo	0.02%	0.03%
Mn chelated (EDTA)	0.15%	0.21%	Free amino acid (AA)	2%	2.8%

Application (Foliar / Fertigation)

Products	Foliar (L/ha)	Fertigation (L/ha)
Field crops	2	4-6
Orchard trees	2-3	5-7
Vegetables	2-3	5-7
Greenhouse & ornamentals	2	2-4

Название продукта: Фитомакс 14-52-14 Суспензия с Микроэлементами

اسم المنتج: فيتومكس ١٤-٥٢-١٤ تعليق مع عناصر مغري



Product Name: Phytomax Liquid Soil Disinfectant

Composition: Phosphoric acid

Phytomax soil disinfectant liquid is suitable for all agricultural lands and greenhouses. It quickly eliminates fungal, bacterial diseases, and soil nematodes. It can also enhance productivity and the absorption of other fertilizers.

Advantages and Features:

- Promotes root growth and plant development
- Improves nutrient absorption via roots and leaves

Guaranteed Analysis:

Element	W/W	W/V
Available Phosphorus (P_2O_5)	10%	11%

Application:

Foliar Spray	Irrigation
50–75 mL per 100 L water	1–1.5 L per 1000 L water

Название продукта: Фитомакс Жидкий Дезинфектор Почвы

اسم المنتج: فيتومكس مطهر التربة السائل



Phytomax liquid soil disinfectant

www.alborzbehamsam.com

Fertilizers



Product Name: Phytomax 20-20-20 NPK

Composition: Potassium nitrate, Mono potassium phosphate, Mono ammonium phosphate, Urea, Potassium sulfate, Copper sulfate, Iron sulfate, Manganese sulfate, Zinc sulfate

Balanced NPK with chelated micronutrients, effective during vegetative growth. Can be applied via foliar, irrigation, or hallow fertilization. Compatible with granules or powders.

Elements (W/W)

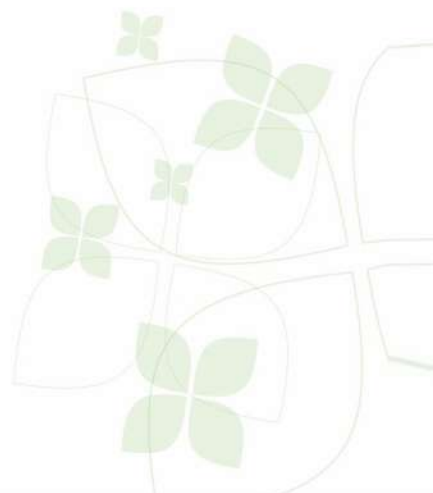
Element	Content		
Total nitrogen (N)	20%	Soluble iron (Fe)	0.03%
Available phosphorus (P ₂ O ₅)	20%	Soluble manganese (Mn)	0.15%
Soluble potassium (K ₂ O)	20%	Soluble zinc (Zn)	0.15%
		Solubility (g/L)	200
Soluble copper (Cu)	0.01%		

Application (Products / Foliar / Fertilization)

Products	Foliar (kg/1000 L water)	Fertilization (kg/ha)
Orchard crops	3-4	15-20
Field crops	4-5	10-15
Greenhouse crops	4-5	7-8
Ornamental plants	4-5	7-8

Название продукта: Фитомакс NPK (20-20-20)

اسم المنتج: فیتومکس (20-20-20) NPK



Product Name: Phytomax Calcium-Boron Fertilizer

Composition: Calcium nitrate, boric acid

Promotes sugar transport, fruit quality, and accelerates calcium uptake due to the synergistic effect of boron.

Guaranteed Analysis:

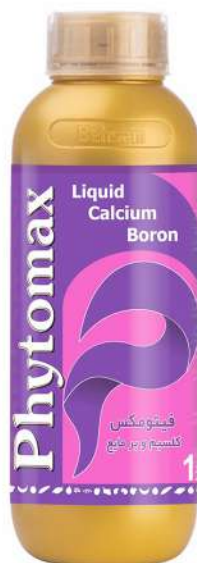
Element	W/W
Total Nitrogen (N)	7%
Soluble Calcium (Ca)	13.9%
Soluble Boron (B)	0.2%

Application:

Crop Type	Foliar Spray	Irrigation
Fruit trees	4-5 L per 1000 L	6-8 L/ha
Field crops	3-4 L per 1000 L	4-6 L/ha

Название продукта: Фитомакс Удобрение Кальций-Бор

اسم المنتج: فيتومكس سماد الكالسيوم والبورون



Phytomax calcium - Boron

www.alborzbehamsam.com

Fertilizers



Product Name: Phytomax Copper Sulfate Fertilizer

Composition: Copper sulfate

Supports chlorophyll formation, photosynthesis, and corrects copper deficiencies caused by high pH or calcareous soils.

Guaranteed Analysis:

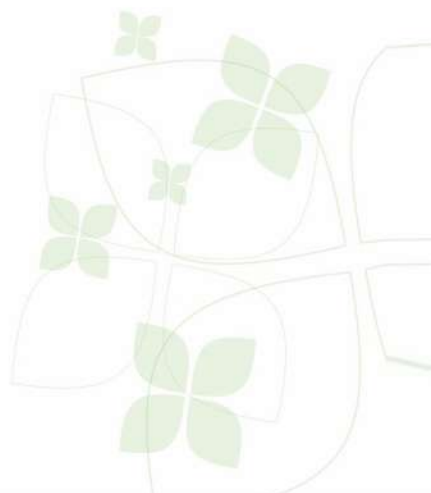
- Soluble Copper (Cu): 24%
- Maximum insoluble material: 1%
- Minimum pH: 3

Application:

- 10–20 kg/ha as ring application in orchards

Название продукта: Фитомакс Сульфат Меди Удобрение

اسم المنتج: فيتومكس سماد كبريتات النحاس



Product Name: Phytomax 46-0-8 (Potassium Nitrate)

Composition: Potassium nitrate, potassium carbonate, urea, potassium sulfate, iron sulfate, zinc sulfate
Provides nitrogen and potassium to support growth, fruit quality, and resistance to stress.

Guaranteed Analysis:

Element	W/W
Nitrogen (N)	8%
Soluble Potassium (K ₂ O)	46%
Soluble Sulfur	7%
Soluble Zinc	0.03%
Soluble Iron	0.01%
Solubility	200 g/L

Application:

Crop	Fertigation	Foliar Spray
Fruit trees	10–15 kg/ha	2–3 kg/ha
Field crops	10–12 kg/ha	3–5 kg/ha
Greenhouse	7–10 kg/ha	1.5–2 kg/ha

Название продукта: Фитомакс 46-0-8 (нитрат калия)

اسم المنتج: فيتومكس ٤٦-٠-٨ (نترات البوتاسيوم)



Phytomax Potassium Nitrate

Fertilizers

www.alborzbehamsam.com



Product Name: Biomand Amino Acid Fertilizer (with Microelements)

Composition: Amino acids

Description: In addition to amino acids, this fertilizer provides nitrogen to plants. Suitable for all agricultural and garden crops. Enhances photosynthesis and calcium absorption. Contains 13% nitrogen, fulfilling plant nitrogen requirements.

Benefits:

1. Improves photosynthesis
2. Increases nutrient absorption
3. Enhances soil microorganism activity
4. Increases product quantity and quality

Guaranteed Analysis:

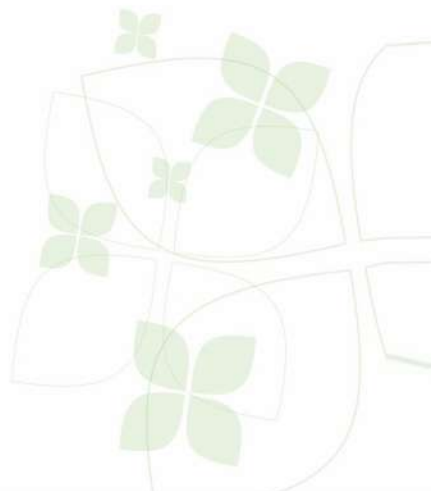
Component	Percentage
Total Nitrogen (N)	12%
Free Amino Acid	75%
pH	7.4

Application Instructions:

Crop Type	Foliar Spray	Fertigation
Garden plants	50–100 g per 100 L water	1–3 kg/ha
Field crops	50–80 g per 100 L water	1–2 kg/ha

Название продукта: Биоманд Аминокислотное Удобрение (с микроэлементами)

اسم المنتج: بيوماند سماد الأحماض الأمينية (مع عناصر مغذية)



Product Name: Seaweed Extract

Composition: Seaweed

Description: Enhances beneficial soil microorganisms, reduces pests and pathogenic fungi, increases plant stress tolerance. High fiber improves soil texture and water retention. Contains essential nutrients like N, P, K, and trace elements. Improves soil physicochemical properties including cation exchange capacity, water retention, and pH adjustment.

Benefits:

- Increases protein absorption in crops
- Enhances nutrient uptake from soil
- Improves soil physical and chemical properties
- Increases plant resistance to pests and diseases
- Stimulates rooting and germination
- Adds minerals and nutrients
- Regulates soil pH and salinity
- Enhances plant resistance to environmental and physiological stresses
- Promotes plant vitality

Guaranteed Analysis (w/w):

Component	Percentage
Alginic Acid	16%
Free Amino Acid	2%
Soluble Potassium (K ₂ O)	16%
Organic Matter	50%
pH	8–11

Application:

Fertigation	Foliar Spray	Crop Type
1–3 kg/ha	0.5–1.8 kg per 1000 L water	All crops

Название продукта: Экстракт Морских Водорослей

اسم المنتج: مستخلص الطحالب البحرية



Seaweed Extract

www.alborzbehamsam.com

Fertilizers



Product Name: Phytomax Liquid Amino Acid Fertilizer

Composition: Amino acids, boric acid, FeSO_4 , MnSO_4 , ammonium molybdate, ZnSO_4

Description: Contains essential amino acids and nutrients. Designed for easy absorption by plants.

Benefits:

- Accelerates rooting and germination
- Improves pollination, flowering, and fruiting
- Increases nutrient uptake by roots
- Enhances stress tolerance (drought, salinity, temperature extremes)
- Strengthens plant defense against pests and diseases
- Improves fruit taste, color, firmness, and shelf life
- Boosts photosynthesis

Guaranteed Analysis:

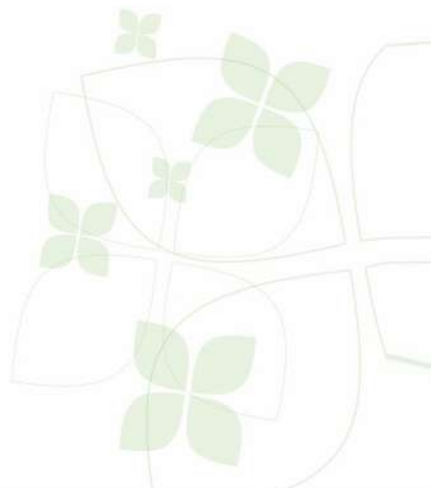
Component	Percentage
Free Amino Acid (AA)	6%
Soluble Boron (B)	0.17%
Soluble Iron (Fe)	2.21%
Soluble Manganese (Mn)	0.83%
Soluble Molybdenum (Mo)	0.02%
Soluble Zinc (Zn)	0.5%

Application:

Crop Type	Fertigation (kg/ha)	Foliar Spray (kg/1000 L)	Timing
Garden & field crops	6-8	2-3	All vegetative and reproductive stages

Название продукта: Фитомакс Жидкое Аминокислотное Удобрение

اسم المنتج: فيتومكس سماد الأحماض الأمينية السائل



Product Name: Amino-Calcium Fertilizer

Composition: Calcium carbonate, urea, gluten, amino acids

Description: High calcium and amino acid content supports vegetative and reproductive growth. Maintains cell wall integrity and enhances chlorophyll content for improved photosynthesis.

Benefits:

1. Strengthens cell walls
2. Reduces flower and fruit drop
3. Increases resistance to environmental stress
4. Improves product quality and storage life
5. Enhances photosynthesis and nutrient absorption

Guaranteed Analysis (w/w):

Component	Percentage
Total Nitrogen (N)	2.1%
Total Calcium (CaO)	14%
Free Amino Acid	6%

Application:

Crop Type	Fertigation	Foliar Spray
Garden crops	8 L/ha	3 L per 1000 L water
Field crops	5 L/ha	3 L/ha
Greenhouse crops	1 L per 1000 m ²	1-5 L per 1000 L water

Название продукта: Амино-Кальциевое Удобрение

اسم المنتج: سماد أمينو-كالمسيوم



Phytomax Amino - Calcium

www.alborzbehamsam.com

Fertilizers



Product Name: Phytomax Humic Acid Powder

Composition: Potassium hydroxide, potassium humate, fulvic acid

Improves soil nutrients, stimulates soil microorganisms, balances pH, and increases nutrient absorption.

Guaranteed Analysis:

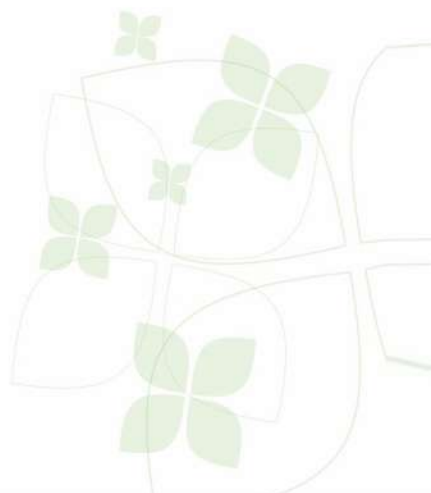
Element	W/W
Soluble Potassium (K ₂ O)	12%
Fulvic Acid	15%
Soluble Potassium Humate	58%
Potassium Humate	70%
pH	6.5–6.7
Moisture	3.5%

Application:

- 5–8 kg/ha as ring application for fruit trees
- 2–5 kg/ha for field crops
- 150–200 g/ha as seed coating

Название продукта: Фитомакс Порошок Гуминовой Кислоты

اسم المنتج: فیتومکس مسدوق حمض الہیومیک



Product Name: Liquid Potassium Fertilizer (K55)

Composition: Potassium carbonate

Description: Supplies potassium, regulates osmotic pressure, activates plant enzymes, improves water use efficiency, enhances sugar transport, and increases crop quality and stress resistance.

Benefits:

- Regulates plant enzyme activities
- Increases photosynthesis
- Supports vegetative growth
- Enhances sugar and starch transport

Guaranteed Analysis:

Component	W/V	W/W
Soluble Potassium (K ₂ O)	55%	33%

Application:

Crop Type	Foliar Spray	Fertigation
Field crops	2-3 L per 1000 L water	3-6 L/ha
Garden crops	2-3 L per 1000 L water	6-8 L/ha
Vegetables & herbs	2-3 L per 1000 L water	3-6 L/ha

Название продукта: Жидкое Калийное Удобрение (K55)

اسم المنتج: سماد البوتاسيوم السائل (K55)



Phytomax K55

www.alborzbeh.sam.com

Fertilizers



Product Name: Phytomax 5-25-25+ Micronutrients Fertilizer

Composition: Potassium nitrate, mono potassium phosphate, mono ammonium phosphate, urea, potassium sulfate, copper sulfate, iron sulfate, manganese sulfate, zinc sulfate

This complete fertilizer provides macro and micronutrients in proportions tailored for different plant growth stages.

Advantages:

- Adequate phosphorus and potassium
- Micronutrients in EDTA chelated form
- Can be used as foliar spray or irrigation fertilizer
- Stimulates rooting and increases yield
- Improves plant metabolism due to zinc

Guaranteed Analysis:

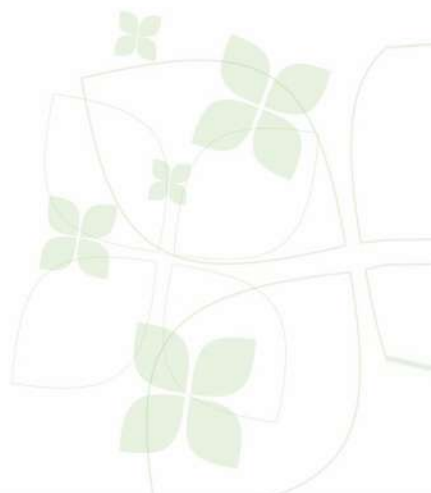
Element	W/W	EDTA Iron	0.1%
Total Nitrogen (N)	5%	EDTA Zinc	0.09%
Available Phosphorus (P ₂ O ₅)	25%	EDTA Magnesium	0.2%
Soluble Potassium (K ₂ O)	25%	Solubility	200 g/L

Application:

Crop Type	Foliar Spray	Irrigation
Field crops	2-3 kg/ha	6-10 kg/ha
Orchards	3-5 kg per 1000 L water	10-20 kg/ha

Название продукта: Фитомакс 25-25-5 + Микроэлементы Удобрение

اسم المنتج: فیتومکس ۲۵-۲۵-۵ + عناصر مغذی سماد



Product Name: Phytomax Liquid Humic Fertilizer

Composition: Mono ammonium phosphate, potassium hydroxide, sulfur, humic acid, phosphoric acid
Enhances fruit size, yield, vegetative and reproductive growth, and stimulates soil microorganisms.

Guaranteed Analysis:

Element	W/W
Total Nitrogen (N)	1%
Available Phosphorus (P_2O_5)	3%
Soluble Potassium (K_2O)	5%
Soluble Sulfur	5%
Humic Acid	12%

Application:

- Flood irrigation: 3-5 L/ha
- Foliar spray: 1 L per 500 L water

Название продукта: Фитомакс Жидкое Гуминовое Удобрение

اسم المنتج: فيتومكس سماء هيوميكي سائل



Phytomax liquid HUMIC

www.alborzbehamsam.com

Fertilizers

Product Name: Phytomax Magnesium Sulfate 12% Powder

Description:

Magnesium is essential for photosynthesis, enzyme activation, sugar production, and nitrogen fixation. Sulfur regulates plant pH and boosts resistance to environmental stress.

Benefits:

- Enhances protein and oil production
- Improves phosphorus uptake and carbohydrate synthesis
- Boosts plant resilience and visual quality
- Corrects magnesium and sulfur deficiencies

Composition: Magnesium Sulfate

Guaranteed Analysis:

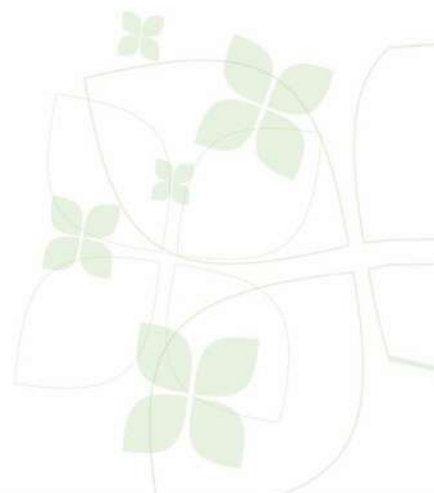
Component	Value
Soluble Magnesium	≥ 12%
Soluble Sulfate	≥ 37.18%
Insoluble Matter	≤ 1%
pH (5% solution)	5–8
pH (10% solution)	4

Application Instructions:

Crop Type	Soil Application	Foliar Application	Fertigation Rate
Field Crops	1–1.5 kg/1000 L water	8–12 kg/ha	—
Orchards	100–300 g/tree (winter)	1–2 kg/1000 L water	7–10 kg/ha

Фитомакс Сульфат Магния 12% Порошок

فیتومکس کبریتات المغنيسيوم ۱۲ % مسحوق



Product Name: Ortho force Iron 6% powder

Description:

Chelated iron (EDDTA) with 4.8% ortho-ortho isomers, stable across a wide pH range. Essential for chlorophyll synthesis and nitrogen fixation.

Benefits:

- High solubility and foliar compatibility
- Suitable for drip and sprinkler irrigation
- Promotes root growth and cold resistance
- Reduces fruit and flower drop

Composition: Iron Sulfate, Sulfuric Acid, EDTA

Guaranteed Analysis:

Element	Percentage
Soluble Iron	6%
pH	9 - 7
EDDHA chelate iron	4.8%

Application Instructions:

Crop Type	Foliar Application	Fertigation Rate	Frequency
Field Crops	1.5–2.5 kg/ha	3–5 kg/ha	Every 10–15 days
Orchards	2.5–4.5 kg/ha	25–100 g/tree	Every 10–15 days

Фитомакс Железо 6% Порошок (EDDTA)

فيتومكس الحديد 6% مسحوق (EDDTA)



Ortho force Iron 6% powder

www.alborzbehamsam.com

Fertilizers





Phytomax Folic Acid

Description:

Phytomax Folic Acid improves soil cation exchange capacity, enhances root development, and boosts nutrient uptake. Each folic acid molecule contains over 60 minerals and micronutrients, making it a powerful cation exchange enhancer. It stimulates microbial activity, improves micronutrient availability, and activates plant metabolism and enzyme function. It also enhances nutrient absorption, transport, and cell membrane permeability.

Benefits:

- Stimulates soil microorganisms
- Improves soil structure
- Enhances plant resistance to environmental stress
- Regulates soil pH
- Promotes root development
- Boosts enzymatic activity and nutrient mobility

Composition: Folic Acid

Guaranteed Analysis (w/w):

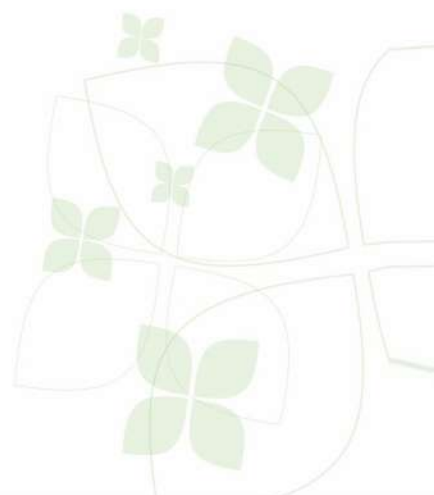
Element	Percentage
Pure Folic Acid	85%
pH	6-7

Application Instructions:

Crop Type	Fertigation Rate	Foliar Application
Field Crops	2-3 kg/ha	0.3-0.5 kg per 1000 L water
Orchards	1-3 kg per 1000 L water	0.3-0.7 kg per 1000 L water

Фитомакс Фолиевая Кислота

فيتومكس حمض الفوليك



Product Name: Phytomax Multi Complex Organic Fertilizer (Macro + Micro)

Description:

A bio-stimulant fertilizer enriched with hydrolyzed animal protein, poultry manure, fish oil, seaweed extract, plant amino acids, humic and fulvic acids, and vitamins B and C. It provides complete macro and micro nutrients for all crops.

Benefits:

- Suitable for both foliar and fertigation use
- Supports all growth stages, especially vegetative and reproductive
- Enhances resistance to pests and environmental stress
- Boosts root volume and nutrient uptake
- Prevents flower drop and improves pollination
- Corrects macro and micronutrient deficiencies
- Stimulates microbial activity in soil
- Improves crop yield and quality

Composition:

Potassium Hydroxide, Potassium Sulfate, Sulfur, Monoammonium Phosphate, Urea, Humic Acid, Amino Acids, EDTA Iron, EDTA Zinc, Calcium Nitrate, Boric Acid, Ammonium Molybdate, Magnesium Sulfate

Guaranteed Analysis:

Element	w/w (%)	Soluble Zinc (Zn)	1%	Soluble Magnesium (Mg)	0.05%
Total Nitrogen (N)	8%	Soluble Calcium (Ca)	1%	Free Amino Acids (AA)	4%
Available Phosphorus (P ₂ O ₅)	4%	Soluble Boron (B)	1%	Humic Acid	6%
Soluble Potassium (K ₂ O)	5%	Soluble Molybdenum (Mo)	0.01%	Organic Carbon	10%
Soluble Iron (Fe)	0.12%	Soluble Sulfur (S)	4%	Soluble Chloride (Cl)	2.5%

Application Instructions:

Crop Type	Foliar Application	Fertigation Rate
Orchards	3-5 L per 1000 L water	8-12 L/ha
Field Crops	3-4 L per 1000 L water	7-10 L/ha
Greenhouse/Hydroponic	2-3 L per 1000 L water	5-8 L/ha

Фитомакс Мульти Комплекс Органическое Удобрение (Макро + Микро)

فیتومکس سماد عضوی متعدد العناصر (ماکرو + میکرو)



Phytomax multi complex organic

www.alborzbeh.sam.com

Fertilizers



Product Name: Granular Fertilizer 5-5-5 with Sulfur and Humic Acid

Type: granular fertilizer

This fertilizer contains nitrogen, phosphorus, potassium, humic acid, and sulfur, playing a vital role in vegetative and reproductive growth. It can be applied to soil or used in pit fertilization.

Advantages:

- Enhances product quality and yield
- Gradual absorption due to granular formulation
- Promotes root growth and development

Composition: Triple superphosphate, urea, potassium sulfate, humic acid, citric acid

Guaranteed Analysis:

Element	Percentage
Total Nitrogen	5%
Available Phosphorus	5%
Water-soluble Potassium	5%
Soluble Sulfur	1.8%
Humic Acid	2%
Citric Acid	0.1%
Minimum particle size (2–4 mm)	90%

Application Instructions:

Crop Type	Soil Application	Pit Fertilization
Field Crops	200–300 kg/ha	-
Orchards	300–400 kg/ha	500–800 g/tree
Vegetables	200–300 kg/ha	-

Гранулированное удобрение 5-5-5 с серой и гуминовой кислотой

سماد حيوي 5-5-5 مع الكبريت وحمض الهيوميك



Product Name: Granular Fertilizer 9-7-7 with Humic Acid, Zinc, Silicon, and Sulfur

Type: granular fertilizer

Phytomax 7-7-9 contains nitrogen, phosphorus, potassium, humic acid, zinc, silicon, and sulfur. It is chlorine-free and suitable for sensitive plants and saline soils due to its sulfur content.

Advantages:

- Improves product quality and yield
- Contains humic acid, sulfur, silicon, and zinc
- Enhances plant resistance to environmental stress
- Gradual absorption due to granular formulation
- Promotes root growth and development

Composition: Urea, triple superphosphate, humic acid, sulfur, citric acid, potassium sulfate, potassium silicate

Guaranteed Analysis:

Element	Percentage	Soluble Sulfur	2.4%
Total Nitrogen	9%	Soluble Silicon	1%
Available Phosphorus	7%	Soluble Zinc	1%
Water-soluble Potassium	7%	Humic Acid	2%

Application Instructions:

Crop Type	Soil Application	Pit Fertilization
Field Crops	150–200 kg/ha	-
Orchards	200–250 kg/ha	300–600 g/tree
Vegetables	150–200 kg/ha	-

Гранулированное удобрение 7-7-9 с гуминовой кислотой, цинком, кремнием и серой

سماد حيبي ٧-٧-٩ مع حمض الهيوميك والزنك والسيليكون والكبريت



Phytomax 9-7-7 GR

www.alborzbeh.sam.com

Fertilizers



Product Name: Granular Fertilizer 10-10-10 with Humic Acid, Fulvic Acid, and Seaweed

Type: granular fertilizer

Phytomax 10-10-10 is a complete granular fertilizer containing nitrogen, phosphorus, potassium, humic acid, fulvic acid, and seaweed. It supplies macro and micro nutrients and helps plants resist environmental stress.

Advantages:

- Enhances vegetative and reproductive growth and yield
- Usable in all growth stages
- Promotes root development due to humic acid

Composition: Monoammonium phosphate, urea, potassium sulfate, humic acid, fulvic acid, amino acid, citric acid, seaweed

Guaranteed Analysis:

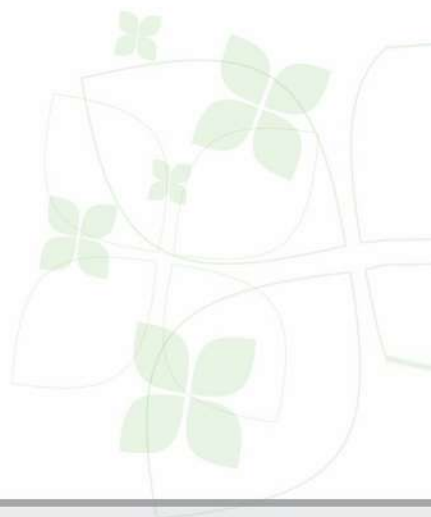
Element	Percentage		
		Alginic Acid	0.2%
Total Nitrogen	10%	Fulvic Acid	2%
Available Phosphorus	10%	Humic Acid	2%
Water-soluble Potassium	10%	Citric Acid	0.1%
		Free Amino Acid	0.1%
Soluble Sulfur	3.6%		
		Minimum particle size (2-4 mm)	90%

Application Instructions:

Crop Type	Soil Application	Pit Fertilization
Field Crops	50-100 kg/ha	-
Orchards	100-150 kg/ha	300-600 g/tree
Vegetables	50-100 kg/ha	-

Гранулированное удобрение 10-10-10 с гуминовой кислотой, фульковой кислотой и водорослями

سماد حيبي ١٠-١٠-١٠ مع حمض الهيوميك والفولفيك والطحالب



Product Name: Granular Fertilizer NP5-15 with Sulfur and Humic Acid

Type: granular fertilizer

- This fertilizer contains nitrogen and phosphorus, along with humic acid and sulfur. Nitrogen supports vegetative growth, phosphorus is essential for protein synthesis, sulfur helps neutralize soil alkalinity and disinfect it, and humic acid boosts soil organic matter and plant resistance to environmental stress.

Advantages:

- Enhances vegetative and reproductive growth
- Increases plant resistance to pests and diseases
- Supplies essential nitrogen
- Promotes root development
- Improves tolerance to environmental stress

Composition: Urea, triple superphosphate, humic acid, sulfur, citric acid

Guaranteed Analysis:

Element	Percentage		
Total Nitrogen	5%	Humic Acid	2%
Available Phosphorus	15%	Citric Acid	0.1%
Soluble Sulfur	0.5%	Particles 2–4 mm	≥90%

Application Instructions:

Crop Type	Soil Application	Pit Fertilization
Field Crops	150–200 kg/ha	-
Orchards	200–250 kg/ha	400–600 g/tree
Vegetables	150–200 kg/ha	-

Application Instructions:

Crop Type	Soil Application	Pit Fertilization
Field Crops	50–70 kg/ha	-
Orchards	70–100 kg/ha	200–400 g/tree
Vegetables	50–70 kg/ha	-

Гранулированное удобрение 15-5 с серой и гуминовой кислотой

سماد حيوي 15-5 مع الكبريت وحمض الهيوميك



Phytomax NP 5-15 GR

www.alborzbehamsam.com

Fertilizers



Phytomax NPK 12-12-12 GR

info@alborzbehsam.com

Fertilizers

Product Name: Granular Fertilizer 12-12-12 with Humic Acid, Amino Acid, Fulvic Acid, Sulfur, and Micronutrients

Type: granular fertilizer

- This balanced fertilizer contains nitrogen, phosphorus, potassium, humic acid, amino acid, fulvic acid, sulfur, and essential micronutrients. It is designed to meet the fundamental nutritional needs of plants.

Advantages:

- Enhances both quality and quantity of yield
- Gradual nutrient release due to granular formulation
- Supports root growth and development

Composition: Monoammonium phosphate, urea, potassium sulfate, humic acid, fulvic acid, amino acid, iron sulfate, zinc sulfate, copper sulfate, manganese sulfate, magnesium sulfate, citric acid

Guaranteed Analysis:

Element	Percentage	Soluble Calcium	0.05%	Soluble Boron	0.02%
Total Nitrogen	12%	Soluble Sulfur	4.3%	Fulvic Acid	0.5%
Available Phosphorus	12%	Soluble Iron	0.6%	Humic Acid	2%
Water-soluble Potassium	12%	Soluble Zinc	0.6%	Free Amino Acid	0.1%
		Soluble Copper	0.6%	Citric Acid	0.1%
Soluble Magnesium	0.5%	Soluble Manganese	0.7%	Particles 2-4mm	≥90%

Application Instructions:

Crop Type	Soil Application	Pit Fertilization
Field Crops	50-70 kg/ha	-
Orchards	70-100 kg/ha	200-400 g/tree
Vegetables	50-70 kg/ha	-

Гранулированное удобрение 12-12-12 с гуминовой кислотой, аминокислотой, фульвовой кислотой, серой и микроэлементами

سماد حيبي ١٢-١٢-١٢ مع حمض الهيوميك، الحمض الأميني، الفولفيك، الكبريت والعناصر الدقيقة



Product Name: Granular Fertilizer KMg (Potassium and Magnesium)

Type: granular fertilizer

- This fertilizer contains potassium, magnesium, nitrogen, sulfur, and humic acid. Magnesium regulates phosphorus uptake, contributes to chlorophyll synthesis, enzyme activation, and nucleic acid synthesis. It also facilitates phosphate compound transport and carbohydrate movement, boosting oil production. Potassium enhances photosynthesis and fruit formation.

Advantages:

- Prevents magnesium deficiency-induced chlorosis
- Increases oil content in oilseed crops
- Enhances greenness and photosynthesis
- Strengthens resistance to biotic stress
- Suitable for all growth stages
- Improves yield, quality, and storage life

Composition: Potassium sulfate, magnesium sulfate, humic acid, citric acid, urea

Guaranteed Analysis:

Element	Percentage		
Total Nitrogen	2%	Soluble Sulfur	8.57%
Water-soluble Potassium	10%	Humic Acid	2%
		Citric Acid	0.1%
Soluble Magnesium	2%	Particles 2–4 mm	≥90%

Application Instructions:

Crop Type	Soil Application	Pit Fertilization
Field Crops	150–200 kg/ha	–
Orchards	200–300 kg/ha	200–400 g/tree
Vegetables	120–200 kg/ha	–

Гранулированное удобрение KMg (калий и магний)

(البوتاسيوم والمغنيسيوم) سماد حبيبي KMg



Phytomax KMg GR

www.alborzbehamsam.com

Fertilizers



Product Name: Granular Fertilizer Sulfur + Copper with Humic Acid

Type: granular fertilizer

- Contains elemental sulfur (10%), copper (3%), and humic acid (2%). Sulfur improves soil pH and disinfection. Copper is vital for enzyme structure and function. Together, they enhance plant performance and product quality.

Advantages:

- Improves enzymatic activity
- Enhances chlorophyll synthesis and photosynthesis
- Provides fungicidal properties
- Boosts oil synthesis in oil crops
- Enhances plant performance and quality
- Reduces alkalinity in soils
- Increases soil organic matter
- Strengthens resistance to drought and temperature stress

Guaranteed Analysis:

Element	Percentage	Humic Acid	2%
Elemental Sulfur	10%	Soluble Copper	3%
Total Sulfur	11.6%	Citric Acid	0.1%

Application Instructions:

Crop Type	Soil Application	Pit Fertilization
Field Crops	50–100 kg/ha	–
Orchards	100–150 kg/ha	50–100 g/tree
Vegetables	50–100 kg/ha	–

Гранулированное удобрение Сера + медь с гуминовой кислотой

سماد حيبي الكبريت + النحاس مع حمض الهيوميك



Product Name: Granular Fertilizer K20 (Potassium 20%)

Type: granular fertilizer

- Contains potassium (20%), sulfur, nitrogen, and humic acid. Enhances enzyme activity, photosynthesis, fruit quality, nutrient uptake, and post-harvest shelf life.

Advantages:

- Supports sugar synthesis
- Improves root health
- Increases protein content
- Enhances flowering and fruiting
- Boosts yield, quality, and storage
- Strengthens stress resistance
- Promotes vegetative growth

Composition: Sulfur, potassium sulfate, humic acid, citric acid, urea

Guaranteed Analysis:

Element	Percentage		
Total Nitrogen	2.3%	Humic Acid	2%
Water-soluble Potassium	20%	Citric Acid	0.1%
Soluble Sulfur	10%	Particles 2–4 mm	≥90%

Application Instructions:

Crop Type	Soil Application	Pit Fertilization
Field Crops	150–200 kg/ha	–
Orchards	150–200 kg/ha	300–600 g/tree
Vegetables	100–150 kg/ha	–

Гранулированное удобрение K20 (калий 20%)

(% پوتاسيوم ۲۰) سماد حيبي



Phytomax K20 GR

www.alborzbehamsam.com

Fertilizers



Product Name: Granular Fertilizer Micro Complete

Type: granular fertilizer

- Phytomax micro fertilizer contains essential micronutrients: Fe, Zn, Mg, Mn, Cu, B, Mo, seaweed, humic acid, amino acid, and sulfur. Improves soil structure, crop performance, and quality.

Advantages:

- Enhances vegetative and reproductive growth
- Boosts chlorophyll synthesis and photosynthesis
- Balances micronutrient supply
- Improves enzyme activity

Composition: Iron sulfate, zinc sulfate, manganese sulfate, magnesium sulfate, boric acid, copper sulfate, seaweed, sodium molybdate, humic acid, amino acid, citric acid

Guaranteed Analysis:

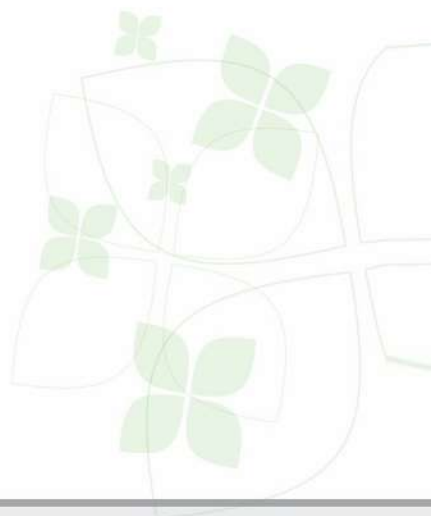
Element	Percentage	Soluble Boron	0.3%		
Soluble Iron	6%	Soluble Molybdenum	0.003%		
Soluble Zinc	3%	Soluble Magnesium	3%	Free Amino Acid	0.1%
Soluble Copper	0.3%	Alginic Acid	0.2%	Citric Acid	0.1%
Soluble Manganese	1%	Humic Acid	2%	Particles 2–4 mm	≥90%

Application Instructions:

Crop Type	Soil Application	Pit Fertilization
Field Crops	30–50 kg/ha	–
Orchards	40–60 kg/ha	40–100 g/tree
Vegetables	20–30 kg/ha	–

Гранулированное удобрение Полный микро

سماد حیثی میکرو کامل



Product Name: Growth Enhancer Fertilizer

Type: granular fertilizer

- This fertilizer contains essential macro and micronutrients that significantly improve vegetative and reproductive growth. The presence of humic acid promotes root development and nutrient absorption.

Advantages:

- Enhances vegetative and reproductive growth
- Boosts chlorophyll synthesis and photosynthesis
- Balances nutrient supply and provides micronutrients
- Improves enzymatic activity in plants
- Stimulates root formation
- Facilitates uptake of macro and micronutrients

Composition: Potassium nitrate, mono potassium phosphate, urea, humic acid, fulvic acid, magnesium sulfate, copper sulfate, zinc sulfate, feather meal, meat meal, phosphate rock, bone meal, leonardite soil

Guaranteed Analysis:

Element	Percentage	Soluble Calcium	0.25%	Humic Acid	6%
Total Nitrogen	3.5%	Soluble Sulfur	1.5%	Fulvic Acid	1.5%
Available Phosphorus	2%	Soluble Iron	0.2%	Organic Carbon	15%
Water-soluble Potassium	2.5%	Soluble Zinc	0.0036%	Moisture	20%
Soluble Magnesium	0.02%	Soluble Copper	0.0025%	Particles 2–4 mm	≥90%

Application Instructions:

Crop Type	Soil Application	Pit Fertilization
Field Crops	200–300 kg/ha	–
Orchards	300–400 kg/ha	500–800 g/tree
Vegetables	200–300 kg/ha	–

Удобрение для стимуляции роста

سماد محفز للنمو



Phytomax Growth Enhancer

www.alborzbeh.sam.com

Fertilizers


Phytomax GR 12-11-18 + 21.5% SO₃

info@alborzbehsam.com

Fertilizers


Product Name: Granular Fertilizer NPK 12-11-18 + 21.5% SO₃ with Micronutrients

Type: granular fertilizer

- Phytomax NPK 12-11-18 + 21.5% SO₃ contains nitrogen, phosphorus, potassium, sulfur, and micronutrients. It is ideal for pit fertilization and helps balance soil pH.

Advantages:

- Improves yield quantity and quality
- Enhances chlorophyll function
- Promotes root development in early growth stages
- Strengthens resistance to environmental stress
- Gradual nutrient release due to granular formulation
- Supports root growth and development

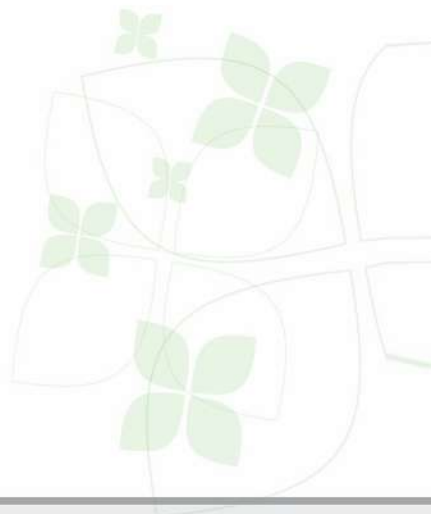
Composition: Mono potassium phosphate, potassium sulfate, urea, magnesium sulfate, iron sulfate, zinc sulfate, manganese sulfate, boric acid

Guaranteed Analysis:

Element	Percentage	Soluble Sulfur	21.5%		
Total Nitrogen	12%	Soluble Magnesium	0.5%	Soluble Manganese	0.95%
Available Phosphorus	11%	Soluble Iron	0.004%	Soluble Boron	0.2%
Water-soluble Potassium	18%	Soluble Zinc	0.04%	Particles 2–4 mm	≥90%

Application Instructions:

Crop Type	Soil Application	Pit Fertilization
Field Crops	150–300 kg/ha	–
Orchards	250–600 kg/ha	300–800 g/tree
Greenhouse	25 kg per 1000 m ²	–

Гранулированное удобрение NPK 12-11-18 + 21.5% SO₃ с микроэлементами مع العناصر الدقيقة NPK 12-11-18 + 21.5% SO₃ سماد حبيبي


Product Name: Granular Fertilizer Zinc + Humic Acid

Type: granular fertilizer

- Contains zinc, humic acid, nitrogen, and sulfur. Zinc is essential for fruit development, auxin hormone regulation, amino acid synthesis, pollination, and maintaining cell membrane integrity.

Advantages:

- Enhances enzymatic activity
- Improves pollination and fertilization
- Boosts product quality and yield
- Increases chlorophyll content
- Strengthens resistance to environmental stress

Composition: Zinc sulfate, urea, humic acid

Guaranteed Analysis:

Element	Percentage
Total Nitrogen	2%
Soluble Sulfur	13%
Soluble Zinc	12%
Humic Acid	5%

Application Instructions:

Crop Type	Soil Application	Pit Fertilization
Field Crops	100–150 kg/ha	—
Orchards	200–300 kg/ha	200–300 g/tree
Vegetables	100–150 kg/ha	—

Гранулированное удобрение Цинк + гуминовая кислота

سماد حيبي الزنك + حمض الهيوميك



Phytomax Zinc+Humic Acid GR

www.alborzbehamsam.com

Fertilizers



Product Name: Granular Micro-Organic Fertilizer

Type: granular fertilizer

- Phytomax micro fertilizer contains essential micronutrients: Fe, Zn, Mg, Mn, Cu, B, Mo, seaweed, humic acid, amino acid, and sulfur. Improves soil structure, crop performance, and quality.

Advantages:

- Enhances vegetative and reproductive growth
- Boosts chlorophyll synthesis and photosynthesis
- Balances micronutrient supply
- Improves enzyme activity

Composition: Iron sulfate, zinc sulfate, copper sulfate, boric acid, magnesium sulfate, silicic acid, humic acid, and amino acids.

Guaranteed Analysis:

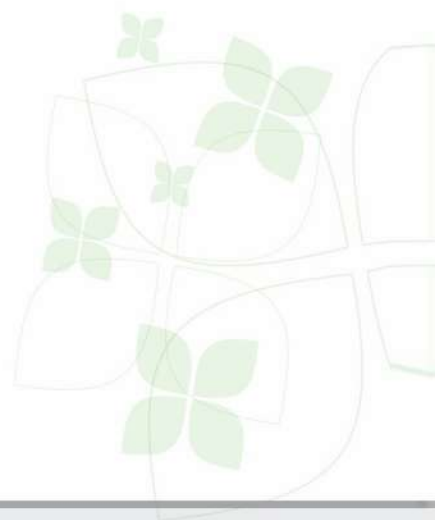
Element	Percentage	Humic Acid	30	Soluble Sulfate	0.5
Soluble Iron	1.5	Organic Matter	12	Soluble Magnesium	0.1
Soluble Copper	0.2	Soluble Zinc (Zn)	1.5	Soluble Silicic Acid	0.1
Soluble Boron	0.5	Soluble Manganese	0.5	Free Amino Acid	0.2

Application Instructions:

Crop Type	Soil Application	Pit Fertilization
Field Crops	300-500 kg/ha	—
Orchards	150-250 kg/ha	200-300 g/tree

Гранулированное удобрение Полный микро

سماد میکرو عضوی



Product Name: Phytomax Granular Fertilizer 15-5-15 + Humic Acid

Type: granular fertilizer

- This balanced fertilizer contains nitrogen, phosphorus, potassium, humic acid, amino acid, fulvic acid, sulfur, and essential micronutrients. It is designed to meet the fundamental nutritional needs of plants.

Advantages:

- Enhances both quality and quantity of yield
- Gradual nutrient release due to granular formulation
- Supports root growth and development

Composition: Monoammonium phosphate, urea, potassium sulfate, humic acid, fulvic acid, amino acid, iron sulfate, zinc sulfate, copper sulfate, manganese sulfate, magnesium sulfate, citric acid

Guaranteed Analysis:

Element	Percentage		
		Humic Acid	2
Total Nitrogen	15	Citric Acid	0.1
Available Phosphorus	5	Minimum granule size (2-4)	90
Water-Soluble Potassium	15	Soluble Sulfur	3.5

Application Instructions:

Crop Type	Soil Application	Pit Fertilization
Field Crops	150–200 kg/ha	-
Orchards	200-250 kg/ha	200–400 g/tree
Vegetables	150–200 kg/ha	-

Гранулированное удобрение 15-5-15 с гуминовой кислотой, аминокислотой, фульвово́й кислотой, серой и микроэлементами

سماد جبيبي ١٥-٥-١٥ مع حمض الهيوميك، الحمض الأميني، الفولفيك، الكبريت والعناصر الدقيقة



Phytomax NPK 15-5-15 GR

www.alborzbehamsam.com

Fertilizers



Product Name: Granul Silice Plus Fertilizer

Type: granular fertilizer

- Phytomax NPK 12-11-18 + 21.5% SO₃ contains nitrogen, phosphorus, potassium, sulfur, and micronutrients. It is ideal for pit fertilization and helps balance soil pH.

Advantages:

- Improves yield quantity and quality
- Enhances chlorophyll function
- Promotes root development in early growth stages
- Strengthens resistance to environmental stress
- Gradual nutrient release due to granular formulation
- Supports root growth and development

Composition: Mono potassium phosphate, potassium sulfate, urea, magnesium sulfate, iron sulfate, zinc sulfate, manganese sulfate, boric acid

Guaranteed Analysis:

Element	Percentage		
Total Nitrogen	2	Soluble Magnesium	3
Soluble Potassium	10	Soluble Zinc	0.02
Soluble Silicon	6	Soluble Copper	0.5
Elemental Sulfur	5	Pure Humic Acid	2

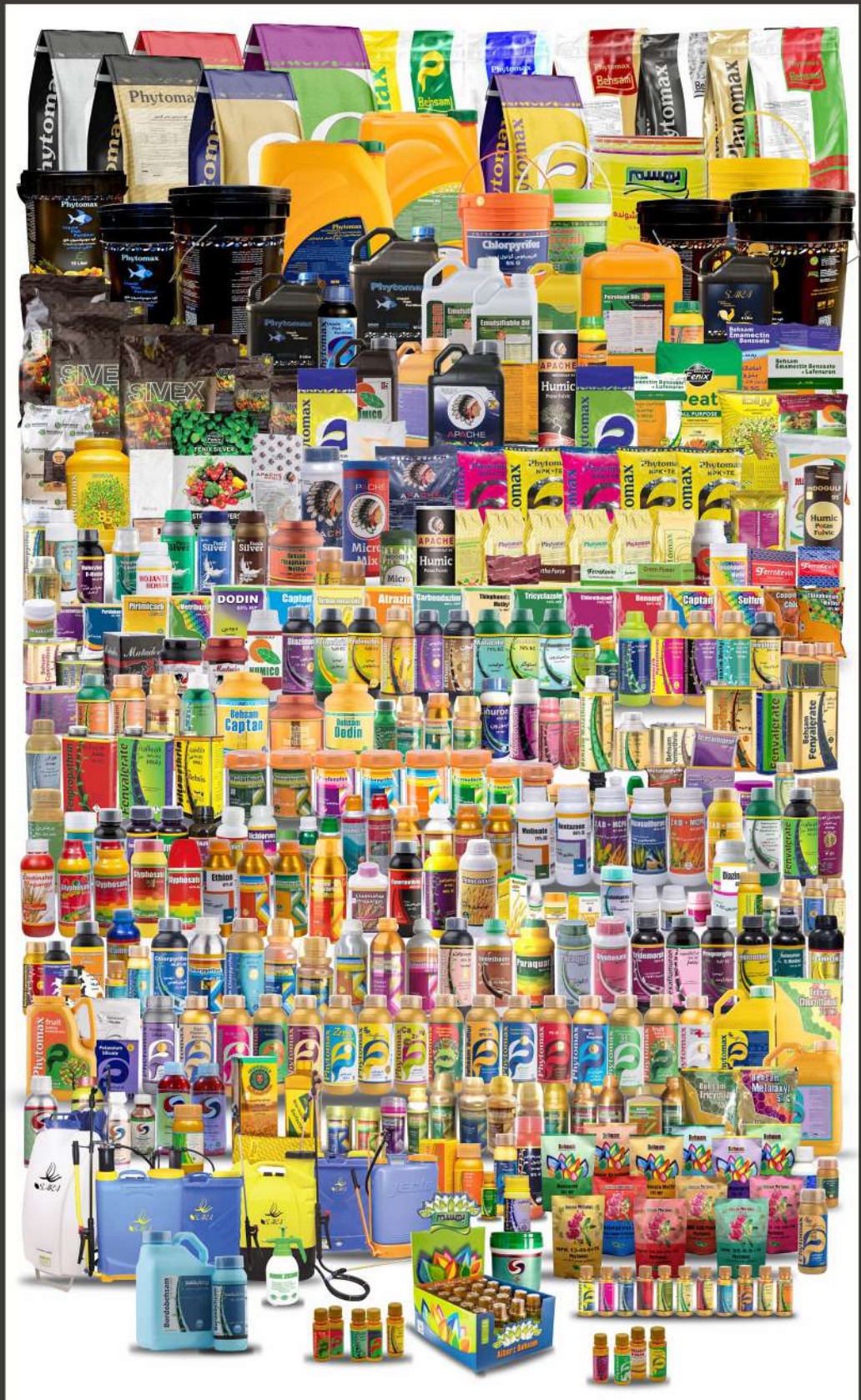
Application Instructions:

Crop Type	Soil Application	Pit Fertilization
Field Crops	150–200 kg/ha	—
Orchards	200–250 kg/ha	200–350 g/tree

Силиций Плюс

سیلیسیوم اضافه







People's Choice Exemplary Manufacturer in
Iran's Chemical Industry

Exemplary Exporter

National Award-Winning Manufacturer of Iran



+9821 - 444 81 500

+9821 - 444 81 505

alborzbehsam.com

info@alborzbehsam.com