



**SCHELKOVO  
AGROHIM**

**COMBINING  
SCIENCE AND  
PRACTICE**

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## About company

### SCHELKOVO AGROHIM is the market leader in agrochemicals and seeds

The company focuses on improving the research and production capacity of Russian agrochemistry and agriculture through advancements in crop and livestock breeding, the revival of domestic breeding and seed production, and the promotion of innovations.

#### Our History

##### Over 145 years of history and tradition

The history of Schelkovo Agrohim dates back to 1876, when one of the leading Russian manufacturers, Ludwig Rabenek, head of the Partnership of Manufactories, established a small plant to produce simple chemicals for local textile factories. This plant laid the groundwork for the multi-profile city-forming chemical plant Schelkovo Agrohim Enterprise, which produced products for a variety of industries and agriculture.

The Schelkovo branch of the All-Russian Research Institute of Chemical Means of Plant Protection (VNIHHSZR) was established in 1963 on the basis of the plant. It was recognised as one of the industry's leading institutes in the development of effective and safe plant protection products, with a high scientific potential. It included an experimental workshop for testing new pesticide production technologies.

The company Schelkovo Agrohim was founded in 1998 on the basis of the chemical plant Schelkovo Agrohim Enterprise and the Schelkovo branch of the VNIHHSZR. It took control of several major pesticide production workshops as well as a number of warehouses. However, the main asset was brainpower and people with extensive practical experience, which formed the foundation of the new company's team.

Starting with a few preparations with a total volume of 1,000 litres, Schelkovo Agrohim has achieved high performance and has become

a leader in the production of plant protection chemicals.

#### The Company Today

##### 25 years of experience in the agricultural market

Schelkovo Agrohim's strong scientific potential, production capacity, and research capabilities enable it to bring innovative plant protection solutions to the pesticide market. Today, the company produces about 80 thousand tonnes of goods worth approximately 40 billion roubles. Schelkovo Agrohim sells its products in all agricultural regions of Russia and the CIS countries, and it is actively expanding into non-CIS markets. Sales are handled by regional offices and exclusive distributors. Official representative offices in 78 cities throughout Russia and abroad provide prompt supply of plant protection products and consulting services.

#### Strong production capabilities

The company's primary activity is the production of plant protection chemicals. The company's portfolio includes over 170 products that provide comprehensive crop protection and nutrition. These are modern highly effective preparations from the following groups: herbicides, insecticides, fungicides, seed treatments, fumigants, rodenticides, desiccants, pheromones, microbiological products, amino acid biostimulants, microfertilisers for foliar dressings, plant growth regulators, etc.

The company has production facilities in Russia, Kazakhstan, and Uzbekistan. The main production is housed in 6 powerful independent workshops on an area of more than 40,000 square metres in the city of Schelkovo, Moscow Region. This is a cutting-edge production with state-of-the-art technology that is constantly being updated, expanded, and modernised. Robotic complexes, production reactor units,

multifunctional installations, and automation systems for various processes are used in the production, which is fully automated. There is also a polymer container workshop, which houses lines for the production of polyethylene canisters, including multilayer COEX containers with a protective barrier layer for packaging aggressive pesticides. The total capacity is 9 million units per year. Raw materials and finished goods are stored in warehouse complexes covering more than 12 thousand square metres and outfitted with high-level storage racks and modern specialised equipment from leading European manufacturers. Products are then delivered to each region via a vast warehouse network of representative offices.

Schelkovo Agrohim products are consistently of high quality, which the consumer can rely on. The company has implemented a quality management system in accordance with the requirements of ISO 9001:2015. High-tech production and a multi-stage analytical control system ensure the release of high-quality products and the absence of defects at all stages of manufacture, from product development to commercial production and finished product acceptance. The state-of-the-art DataMatrix code marking system protects goods from counterfeiting, contains more product information, and ensures data saving and reading, even from a damaged label.

Schelkovo Agrohim's products are all state-registered and have official permission to be used in Russia, the CIS countries, and all over the world. This is preceded by many years of extensive research and testing, which includes determining pesticide biological effectiveness, environmental impact safety, and toxicological, hygienic, and other characteristics.

#### Research Centre

Schelkovo Agrohim ranks first among Russian manufacturers in terms of research capabilities. The VNIHHSZR team stood at the origins of the company's research. The team grew over time and was replenished with new and promising members. The company's research centre is now on par with the largest research institutes

## About company



### Seed breeding and production

In terms of seed breeding and production, Schelkovo Agrohim focuses on creating an integrated commercial production cycle for seeds of major crops. Seed breeding and production centres, as well as centres for mass seed reproduction, were established as part of the project; seed plants were built and put into operation for the industrial preparation of seeds for sowing. As a result, Schelkovo Agrohim offers agricultural producers the opportunity to purchase high-quality seeds of highly productive Russian varieties and hybrids of crops such as winter and spring wheat, soybeans, peas, buckwheat, sugar beet, sunflower, and corn.

in Russia. The centre, which is led by a Russian Academy of Sciences academician, employs over 130 researchers. A Corresponding Member of the Russian Academy of Sciences, Doctors of Science, and Candidates of Chemical, Biological, and Technical Sciences are among them.

Agriculture today would be impossible to imagine without innovations and modern technologies that provide maximum and sustainable crop yields while having the least possible environmental impact. Because of the centre's highest scientific potential and most modern equipment, Schelkovo Agrohim has the opportunity to bring innovative solutions to the pesticide market that meet global trends and are ahead of standards.

Researchers at the company have developed and commercialised novel preparations, such as NANOformulations and oil formulations, as well as original formulations, synthesis methods, and active substance production technologies. Many of these innovations have never been seen before. Schelkovo Agrohim holds over 120 patents for inventions. The company has received worldwide recognition on numerous occasions, including the world's most prestigious independent crop production awards, the Agrow Awards and Crop Science Awards, in the categories of Best Innovative Formulation, Best Product, etc.

Chemical research in the centre entails the development of production technologies for active substances, pheromones, and pharmaceutical ingredients, the creation of new formulations, the discovery of effective combinations of active substances and their formulations, and the execution of chemical analytical tests. A Biological Laboratory was established at the Schelkovo Agrohim Research Centre to conduct comparative tests of various formulations and determine the most promising of them, as well as for operational off-season biological research of the efficacy and biological activity of products. The Laboratory performs pipeline product screening tests as well as PCR and ELISA analyses. The Laboratory's capabilities include artificial climate and lighting control.

### Business areas



Production of plant protection chemicals, agrochemicals, and seeds for large-scale agricultural production, farms, and personal subsidiary plots



Experimental farm and seed production centre



Breeding and non-traumatic seed production facility for winter wheat, soybeans, and sunflower



Selection and genetic centre for new generation sugar beet hybrids



Production of pelleted sugar beet seeds, preparation of sunflower seeds and other crops



Cattle breeding facility for the production of sperm and embryos



Production of nets for protecting intensive-type gardens from hail and birds



Intensive-type gardens



Official dealer of Italian agricultural machinery (Projet and Mascar)

## Comprehensive crop protection systems

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- **Comprehensive protection of cereal crops**
- **Comprehensive protection of sugar beet**
- **Comprehensive protection of soybean**
- **Comprehensive protection of peas**
- **Comprehensive protection of sunflower**
- **Comprehensive protection of maize**
- **Comprehensive protection of fibre flax and oil flax**
- **Comprehensive protection of rapeseed**
- **Comprehensive protection of potato**
- **Comprehensive protection of apple trees**
- **Comprehensive protection of grapes**

# Comprehensive protection of cereal crops

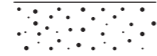
Harmful object																						
	seeds; before sowing	first/second leaf stage	third leaf stage	beginning of tillering	middle of tillering	end of tillering	stem elongation	first joint stage	second joint stage	flag leaf	earring	flowering	yellow ripeness	ripeness								
	00	11	12	21	25	29	30	31	32	39	51-59	61-69	83-87	90								
DISEASES	Loose smut, stinking smut, Fusarium root rot, Helminthosporium root rot, powdery mildew, seed molding, Fusarium mold	<b>Benefis, ME 0,6-0,8 l/t</b> <b>Benefis Supreme, ME 0,6-0,8 l/t</b> <b>Heraklion, SC 1,0-1,2 l/t</b> <b>Polaris, ME 1,0-1,5 l/t</b> <b>Polaris Quatro, SME 1,2-1,5 l/t</b> <b>Protego Max, ME 0,8-1,0 l/t</b> <b>Scarlet, ME 0,3-0,4 l/t</b> <b>Tebu 60, ME 0,4-0,5 l/t</b> <b>Tuareg, SME 1,0-1,4 l/t</b>																				
	Fusarium root rot, Fusarium mold, Cercospora spot, Helminthosporium blight, powdery mildew		Benazol, WP 0,3-0,6 kg/ha		ZIM 500, SC 0,3-0,6 l/ha			Azorro, SC 0,8-1,0 l/ha														
	Powdery mildew, rust, Helminthosporium blight, Septoria blight, Fusarium head blight, tan spot, Rhynchosporium leaf spot						Titul DUO, CSC 0,25-0,32 l/ha		Titul Trio, CSC 0,4-0,6 l/ha		Titul 390, CSC 0,26 l/ha		Capella, ME 0,8-1,0 l/ha		Triada, CSC 0,5-0,6 l/ha		Ace, CSC 0,6-1,0 l/ha		Daizy, SE 0,6-0,8 l/ha			
PESTS	Seedling pests: aphids, ground beetle, flea beetles, corn flies	<b>Bombarda, SC 0,8-1,2 l/t</b> <b>Imidor PRO, SC 0,75-1,25 l/t</b> <b>Polaris Quatro, SME 1,2-1,5 l/t</b> <b>Tuareg, SME 1,0-1,4 l/t</b> <b>Harita, SC 0,3-0,6 l/t</b>																				
	Aphids, Trigonotylus ruficomis, Lema beetles, flea beetles, thrips, Eurygaster integriceps, sawflies, stem flies, leafhoppers, corn flies, cereal chafers		Beretta, OD 0,4 l/ha			Kinfos, EC 0,5 l/ha			Espero, SC 0,1-0,25 l/ha			Faskord, EC 0,1-0,15 l/ha				Sparring, OD 0,1-0,15 l/ha						
WEEDS	Annual and perennial dicotyledonous and grass weeds	Sprut Extra, SL 1,4-4,0 l/ha																				
	Annual and perennial dicotyledonous weeds, including those resistant to 2,4-D and MCPA			Uniko, CSC 1,0-1,5 l/ha																		
	Annual and perennial dicotyledonous weeds, including thistle species			Pixel, OD 0,25-0,3 l/ha		Pinta, OD 0,1-0,15 l/ha		Clok, WG 0,03-0,04 kg/ha		Fortissimo, OD 0,4-0,7 l/ha		Primadonna, SE 0,6-0,9 l/ha		Fenizan, SL 0,14-0,2 l/ha								
	Annual dicotyledonous weeds			Lintaplant, SL 0,7-1,5 l/ha																		
	Thistle, chamomile, and lettuce species			Lornet, SL 0,16-0,66 l/ha																		
	Annual dicotyledonous and grass weeds			Zontran, CSC* 0,3-0,5 l/ha																		
	Annual dicotyledonous and grass weeds			Ballista, OD 0,3-0,5 l/ha																		
	Annual grass weeds (bristle grass species, millet species, wild oat, etc.)			Ovsugen Super, EC 0,4-0,6 l/ha		Ovsugen Express, EC 0,4-0,6 l/ha			Argo, ME 0,7-1,0 l/ha		Argo Prime, ME 0,4-0,55 l/ha											
Annual dicotyledonous weeds, including those resistant to 2,4-D and MCPA			Zinger, WP 0,008-0,01 kg/ha				Granat, WG 0,015-0,025 kg/ha															
Annual dicotyledonous weeds, including those resistant to 2,4-D and MCPA, and perennial weeds, including thistle species			Drotik, CSC 0,4-0,9 l/ha		Damba, SL 0,15-0,3 l/ha		Femida, OD 0,7-0,9 l/ha															
Dessication and growth regulators	Emistim 1 ml/t																					
				Costando, EC 0,2-0,4 l/ha				Hefk, SL 0,5-1,0 l/ha				Tongara, SL 1,5-2,0 l/ha										
Micro- and organo-mineral fertilizers for pre-sowing seed treatments, root top and foliar dressings	Potassium Humate Sufler		Ultramag Molybdenum* Biostim Start		Ultramag Molybdenum* Biostim Growth		Biostim Cereals		Biostim Universal		Ultramag Combi for cereals		Ultramag Super Zinc-700/ Sulfur-900		Ultramag Phosphorus Active/ Super		Ultramag Chelate Cu-15/ Zn-15/ Mn-13/ Fe-13		Ultramag Potassium		Potassium Humate Sufler	
Microbiological fertilizers	Biocomposite Correct		Biocomposite Destruct		Biocomposite Correct		Azafok															

\* Only used on winter crops in autumn

# Comprehensive protection of sugar beet

		before sowing, before sprouting	sowing – seedlings	cotyledons	two true leaves	four true leaves	six true leaves	eight true leaves	50% closing of the rows	30-60 days before harvesting	treatment of root crops before piling for storage
		00	01-07	10	12	14	16	18	35		
WEEDS	Annual grass and dicotyledonous weeds	Sprut Extra, SL 1,4-2,5 l/ha Acetal PRO, EC 2,0-3,0 l/ha Gals, EC 0,2 l/ha				Acetal PRO, EC 2,5-3,0 l/ha					
	Perennial grass and dicotyledonous weeds	Sprut Extra, SL 2,5-4,0 l/ha									
	Annual dicotyledonous weeds, including amaranth, and some grass weeds		Betaren Super MD, OEC 0,9-3,6 l/ha Betaren Express AM, EC 2,0-4,0 l/ha			Betaren 22, OEC 1,0-3,0 l/ha Betaren 320, OD 1,0-1,5 l/ha	Action, SC 1,0-2,0 l/ha Betaren Max, OD 1,0-1,5 l/ha				
	Annual dicotyledonous weeds, including goosefoot and prostrate amaranth		Mitron, SC 1,5-2,0 l/ha			Kondor Forte, OD 0,125 l/ha	Kondor, WG 30 r/ra + Satellite 0,2 l/ha				
	Thistle, chamomile, knotweed, and lettuce species			Lornet, SL 0,3-0,5 l/ha		Lornet, SL 0,1 + 0,2 l/ha (twice, during the first and second waves of weeds)					
	Annual grass weeds		Healer, OEC 0,75-1,0 l/ha	Forward, OEC 0,9-1,2 l/ha		Censor Max, OEC 0,6-0,7 l/ha	Censor, EC 0,2-0,4 l/ha + Mikado				
	Perennial grass weeds		Healer, OEC 1,0-1,5 l/ha	Forward, OEC 1,2-2,0 l/ha		Censor Max, OEC 1,4-1,6 l/ha	Censor, EC 0,7-1,0 l/ha + Mikado				
DISEASES	Powdery mildew, Cercospora spot, Phoma rot		Benazol, WP 0,6-0,8 kg/ha ZIM 500, SC 0,6-0,8 kg/ha Azorro, SC 0,6-1,0 l/ha			Titul 390, CSC 0,26 l/ha Titul DUO, CSC 0,3-0,4 l/ha Vintage, ME 0,6-0,8 l/ha	Mysteria, ME 1,0-1,25 l/ha Titul Trio, CSC 0,4-0,6 l/ha Daizy, SE 0,6-0,8 l/ha				
	Root and grey rots								Kagatnik, SL 2,0 l/ha	Kagatnik, SL 0,06 l/t	
PESTS	Beet flea beetles, weevils, aphids, sod webworms, Pegomya betae, sugar beet weevil, cutworms			Imidor, SL 0,1-0,4 l/ha Pirelli, EC 0,5-1,0 l/ha		Faskord, EC 0,1 l/ha Espero Euro, OD 0,2-0,5 l/ha Imidor Extra, SC 0,1-0,4 l/ha	Kinfos, EC 0,25-0,4 l/ha Beretta, OD 0,3-0,4 l/ha Yunona, ME 0,2-0,4 l/ha	Mekar, ME 0,4-0,6 l/ha Espero, SC 0,1-0,2 l/ha			
	Micro- and organo-mineral fertilizers for foliar dressings					Ultramag Combi for beet Ultramag Boron Potassium Humate Sufler	Ultramag Potassium Ultramag Calcium Ultramag Phosphorus Active Ultramag Phosphorus Super Ultramag Super Sulfur-900	Biostim Beet Biostim Universal Biostim Growth			
	Microbiological fertilizers	Biocomposite Destruct Biocomposite Correct				Biocomposite Correct	Azafok				

# Comprehensive protection of soybean





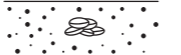


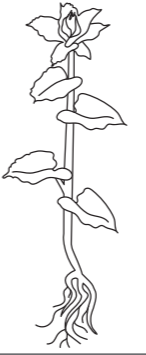
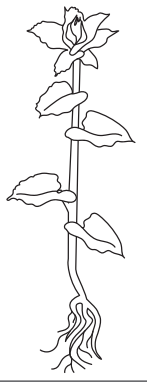
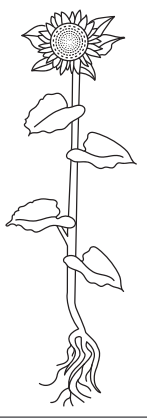
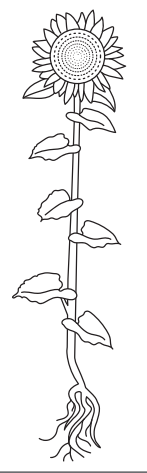
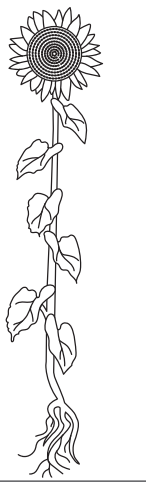
Harmful object	seeds	before sowing	sowing–before sprouting	frondescence	development of shoots	branching	budding	flowering	pod and seed development	seed filling	ripening	
	00	00	08	10	12-13	21-49	51-59	60-70	71-77		82-85	
WEEDS	Annual and perennial grass and dicotyledonous weeds		Sprut Extra, SL 1,4-4,0 l/ha									
	Annual grass and dicotyledonous weeds			Brig, SC 2,5-3,5 l/ha Zontran, CSC 0,6-1,2 l/ha Gals, EC 0,7-1,0 l/ha								
	Annual grass weeds and some dicotyledonous weeds		Versia, OD 3,0-4,0 l/ha									
	Annual and some perennial dicotyledonous and grass weeds			Acetal PRO, EC 2,0-3,0 l/ha		Галс, КЭ 0,7-1,0 l/ha						
	Annual and some perennial dicotyledonous weeds, annual grass weeds				Hermes, OD		0,7-1,0 l/ha					
	Annual dicotyledonous weeds, including those resistant to 2,4-D and triazines				Concept, OD		0,6-1,0 l/ha					
	Annual dicotyledonous weeds				Kupazh, WG		0,006-0,008 kg/ha					
	Annual dicotyledonous weeds, including common cocklebur				Tanto, CSC		0,75-1,0 l/ha					
	Annual dicotyledonous weeds, annual and perennial grass weeds				Benito, CSC		2,0-3,0 l/ha					
	Annual and perennial grass weeds				Geizer, CSC		2,0-3,0 l/ha					
				Forward, OEC		0,9-2,0 l/ha		Healer, OEC 0,75-1,5 l/ha		Censor Max, OEC 0,6-1,6 l/ha Censor, EC 0,2-1,0 l/ha + Mikado		
DISEASES	Fusarium root rot, Ascochyta blight, Fusarium blight, seed mold	Benefis Supreme, ME/ Benefis, ME 0,6-0,8 l/t Scarlet, ME 0,4 l/t Depozit Supreme, ME/ Depozit, ME 1,0-1,2 l/t Heraklion, SC 1,0-1,2 l/t Puaro, SC 1,0-1,25 l/t										
	Ascochyta blight, canker, Septoria blight, Fusarium blight, Cercospora spot, downy mildew				Vintage, ME 0,6-0,8 l/ha		Daizy, SE 0,6-0,8 l/ha		Mysteria, ME 1,0-1,2 l/ha		Azorro, SC 0,6-1,0 l/ha	
PESTS	Seedling pests	Imidor PRO, SC 2,0-2,5 l/t										
	Sod webworms, soybean pod borer, spider mite, cotton budworm, lima bean pod borer				Akardo, CSC 0,4-0,5 l/ha Mekar, ME 0,4-0,6 l/ha		Kinfos, EC 0,3-0,5 l/ha Diflomite, SC 0,3 l/ha		Pirelli, EC 0,8-1,0 l/ha Espero, SC 0,15-0,2 l/ha		Karachar, EC 0,4 l/ha Yunona, ME 0,2-0,4 l/ha	
Dessication and prevention of pod shatter											Tongara, SL 1,5-2,0 l/ha Selfi 1,0 l/ha	
Micro- and organo-mineral fertilizers for pre-sowing seed treatments, root top and foliar dressings	Potassium Humate Sufler Biostim Start				Biostim Oilseed Biostim Growth Biostim Universal		Ultramag Combi for legumes, Ultramag Molybdenum Ultramag Boron, Ultramag Phosphorus Active/ Super Ultramag Super Sulfur-900		SK2020		Ultramag Potassium	
Microbiological fertilizers	Biocomposite Correct Azafok		Biocomposite Correct Biocomposite Destruct Azafok		Biocomposite Correct		Azafok					
Inoculant	Rizoform Soybean											

# Comprehensive protection of peas

Harmful object													
	seeds	before sowing	sowing – before sprouting	seedlings	shooting			stem branching	budding	flowering	pod formation	seed filling	seed ripening
	00	00	01-05	07-09	1-3 leaves 10-12	3-5 leaves 13-15	5-6 leaves 16	31-39	51-55	61-67	71-79	81	
WEEDS	Annual grass and dicotyledonous weeds		Sprut Extra, SL 1,4-2,5 l/ha										
	Perennial grass and dicotyledonous weeds		Sprut Extra, SL 2,5 - 4,0 l/ha										
	Annual and some perennial dicotyledonous and grass weeds					Hermes, OD 0,7-0,9 l/ha			Geizer, CSC 2,0-3,0 l/ha				
	Annual dicotyledonous weeds, including those resistant to MCPA								Benito, CSC 1,5-3,0 l/ha				
	Annual dicotyledonous weeds						Lintaplant, SL 0,5-0,8 l/ha						
	Annual grass weeds					Forward, OEC 0,9-1,2 l/ha							
	Perennial grass weeds					Forward, OEC 1,2-2,0 l/ha							
DISEASES	Fusarium root rot, Ascochyta blight, Fusarium blight, seed mold	Scarlet, ME 0,3-0,4 l/t Depozit, ME 1,0-1,2 l/t Depozit Supreme, ME 1,0-1,2 l/t Heraklion, SC 1,0-1,2 l/t Puaro, SC 1,0-1,25 l/t											
	Ascochyta blight, canker, rust, powdery mildew				Vintage, ME 0,8-1,0 l/ha		Titul DUO, CSC 0,32-0,4 l/ha		Daizy, SE 0,6-0,8 l/ha				
PESTS	Sod webworms, pea moth, spider mite, pea weevil, pea aphid				Kinfos, EC 0,25-0,4 l/ha			Faskord, EC 0,1 l/ha		Espero, SC 0,1-0,2 l/ha			
	Seedling pests	Imidor PRO, SC 0,75- 1,25 l/t											
Plant growth regulator	Imidor PRO, SC 0,75- 1,25 l/t												
Dessication												Tongara, SL 1,5-2,0 l/ha	
Prevention of pod shatter												Selfi 1,0 l/ha	
Micro- and organo-mineral fertilizers for pre-sowing seed treatments, root top and foliar dressings	Potassium Humate Sufler, Biostim Start, Ultramag Molybdenum					Ultramag Combi for legumes Ultramag Boron		Ultramag Molybdenum Ultramag Phosphorus Active/ Super		Ultramag Super Sulfur-900 Biostim Universal Biostim Oilseed		Ultramag Potassium	
Microbiological fertilizers	Biocomposite Correct		Biocomposite Destruct			Biocomposite Correct Azafok							
Inoculant	Rizoform Peas												




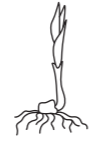





# Comprehensive protection of sunflower

										
Harmful object	seeds; before sowing	sowing – before sprouting	seedlings	2-4 true leaves	6-8 true leaves	budding	anthodium formation	seed ripening	ripeness	
	00	01-03	05-10	12-14	15-18	51-59	71-79	85-89	92	
<b>DISEASES</b>	Stem blight, white mold (foot form), grey mold (seed infection), Fusarium root rot, seed mold	<b>Scarlet, ME</b> 0,4 l/t <b>Heraklion, SC</b> 1,6-2,0 l/t <b>Messer, ME</b> 5 l/t <b>Depozit Suprim, ME</b> 1,0-1,2 l/ha								
	Phoma rot, dry rot of heads, Alternaria blight, white and grey mold, rust			<b>Titul DUO, CSC</b> 0,4-0,5 l/ha	<b>Mysteria, ME</b> 1,0-1,25 l/ha <b>Daizy, SE</b> 0,6-0,8 l/ha	<b>Titul Trio, CSC</b> 0,4-0,6 l/ha <b>Triada, CSC</b> 0,6-1,0 l/ha				
<b>PESTS</b>	Wireworms, Opatnim sabulosum, etc.	<b>Imidor PRO, SC</b> 15 l/t <b>Harita, SC</b> 4,7-5,8 l/t <b>Bombarda, SC</b> 10-13 l/ha								
	Cut worms, cabbage moth, cotton budworm, sod webworms			<b>Kinfos, EC</b> 0,25-0,4 l/ha	<b>Espero, SC</b> 0,15-0,2 l/ha <b>Porfir, SC</b> 0,1-0,15 l/ha	<b>Yunona, ME</b> 0,2-0,4 l/ha <b>Sparring, OD</b> 0,1-0,3 l/ha	<b>Karachar, EC</b> 0,15-0,2 l/ha <b>Faskord, EC</b> 0,2-0,25 l/ha			
<b>WEEDS</b>	Annual grass and dicotyledonous weeds	<b>Sprut Extra, SL</b> 1,4-2,5 l/ha	<b>Acetal PRO, EC</b> 2,0-3,0 l/ha <b>Brig, SC</b> 2,0-3,5 l/ha <b>Estamp, EC</b> 3,0-6,0 l/ha <b>Versia, OD</b> 3,0-4,0 l/ha		<b>Acetal PRO, EC</b> 3,0 l/ha <b>Bravura, SC</b> 2,0-2,5 l/ha					
	Perennial grass and dicotyledonous weeds	<b>Sprut Extra, SL</b> 2,5-4,0 l/ha								
	Annual and some perennial dicotyledonous weeds				<b>Sanflo, WG**</b> 0,025-0,05 kg/ha					
	Annual and some perennial dicotyledonous and grass weeds				<b>Hermes, OD*</b> 0,9-1,0 l/ha	<b>Hermes Forte, OD*</b> 1,0-1,5 l/ha				
	Annual and perennial grass weeds			<b>Forward, OEC</b> 0,9-2,0 l/ha	<b>Healer, OEC</b> 0,75-1,5 l/ha	<b>Censor, EC</b> 0,2-1,0 l/ha + <b>Mikado</b>				
<b>Dessication</b>								<b>Tongara, SL</b> 1,5-2,0 l/ha		
<b>Micro- and organo-mineral fertilizers for pre-sowing seed treatments, root top and foliar dressings</b>	<b>Potassium Humate Sufler</b> <b>Bioestim Start</b>				<b>Ultramag Phosphorus Active/ Super</b>					
					<b>Ultramag Combi for oilseeds</b> <b>Ultramag Super Zinc-700</b> <b>Ultramag Super Sulfur-900</b>	<b>Ultramag Chelate Zn-15</b> <b>Bioestim Universal</b> <b>Bioestim Oilseed</b>	<b>Ultramag Boron</b> <b>Potassium Humate Sufler</b>			
<b>Microbiological fertilizers</b>	<b>Biocomposite Correct</b> <b>Biocomposite Destruct</b>		<b>Biocomposite Correct</b> <b>Azafok</b>							









\* *Hermes, OD, Hermes Forte, OD*: for imidazolinone-resistant sunflower varieties and hybrids

\*\* *Sanflo, WG*: for tribenuron-methyl resistant sunflower varieties and hybrids

# Comprehensive protection of maize





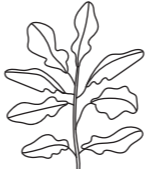
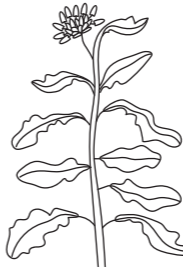

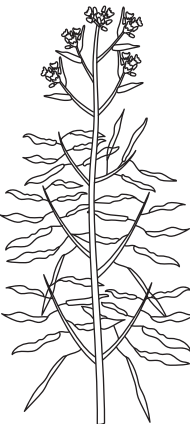
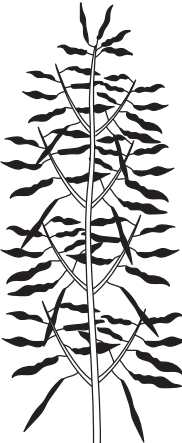
							
Harmful object	seeds; before sprouting	seedlings	3-5 leaves	5-7 leaves	stem elongation	tasselling - flowering	harvest formation - ripening
	00	10	13-15	17	31-39	51-65	85-89
<b>DISEASES</b> Boil smut, head smut, Fusarium root and foot rots, Fusarium blight, seed and ear mold	<b>Scarlet, ME</b> 0,4 l/t <b>Depozit Suprim, ME</b> 1,0-1,2 l/ha			<b>Titul Trio, CSC</b> 0,4-0,6 l/ha	<b>Daizy, SE</b> 0,6-0,8 l/ha	<b>Misteria, ME</b> 1,0-1,25 l/ha	
<b>PESTS</b> Wireworms, cut worms	<b>Imidor PRO, SC</b> 12,5-15 l/t <b>Bombarda, SC</b> 10-13 l/ha						
<b>PESTS</b> European corn borer, sod webworms, cotton budworm, polyphagous pests, aphids, leafhoppers, etc.		<b>Kinfos, EC</b> 0,25-0,4 l/ha	<b>Faskord, EC</b> 0,15-0,25 l/ha	<b>Espero, SC</b> 0,15-0,2 l/ha	<b>Porfir, SC</b> 0,1-0,15 l/ha	<b>Yunona, ME</b> 0,2-0,4 l/ha	
<b>WEEDS</b> Annual and perennial dicotyledonous and grass weeds	<b>Sprut Extra, SL</b> 1,4-4,0 l/ha		<b>Octava, OD</b> 0,8-1,0 l/ha <b>Kassius, SP</b> 0,03+ 0,02 kg/ha (twice) 0,05 kg/ha (once)				
<b>WEEDS</b> Annual grass and dicotyledonous weeds	<b>Acetal PRO, EC</b> 2,0-3,0 l/ha <b>Versia, OD</b> 3,0-4,0 l/ha <b>Brig, SC</b> 2,0-3,5 l/ha		<b>Kassius, SP</b> 0,04 kg/ha + <b>Satellite, L</b> 0,2 l/ha				
<b>WEEDS</b> Annual dicotyledonous weeds, including those resistant to 2,4-D and triazines			<b>Kupazh, WG</b> 0,015 kg/ha				
<b>WEEDS</b> Annual dicotyledonous, annual and perennial grass weeds			<b>Cornegi, SE</b> 1,75-2,0 l/ha <b>Cornegi Plus, OD</b> 1,5-2,0 l/ha				
<b>WEEDS</b> Annual and perennial dicotyledonous weeds			<b>Drotik, CSC</b> 0,75-1,2 l/ha <b>Damba, SL</b> 0,4-0,8 l/ha				
<b>WEEDS</b> Annual dicotyledonous weeds, including those resistant to 2,4-D and MCPA, some perennial dicotyledonous weeds			<b>Primadonna, SE</b> 0,6-0,9 l/ha <b>Primadonna Super, CSC</b> 0,4-0,75 l/ha				
<b>WEEDS</b> Thistle, chamomile, and lettuce species			<b>Lornet, SL</b> 1,0 l/ha				
<b>Micro- and organo-mineral fertilizers for pre-sowing seed treatments, root top and foliar dressings</b>	<b>Biostim Start</b>		<b>Ultramag Chelate Zn-15</b> <b>Ultramag Combi for corn</b>	<b>Ultramag Super Zinc-700</b> <b>Ultramag Potassium</b>		<b>Ultramag Super Sulfur-900</b>	
		<b>Potassium Humate Sufler</b>		<b>Ultramag Phosphorus Active/ Super</b>		<b>Ultramag Boron</b>	
			<b>Biostim Growth</b>		<b>Biostim Universal</b>	<b>Biostim Maize</b>	
<b>Microbiological fertilizers</b>	<b>Biocomposite Destruct</b> <b>Biocomposite Correct</b>		<b>Biocomposite Correct</b> <b>Azafok</b>				

# Comprehensive protection of fibre flax and oil flax

								
Harmful object	seeds	before sowing	sowing - seedlings	sprouting	'herringbone' phase	budding	flowering	ripening
	00		00	10	14-16	55	65	83-85
<b>DISEASES</b> Canker, mottle disease	<b>Tebu 60, ME</b> 0,4-0,5 l/t			<b>Vintage, ME</b> 0,6-1,0 l/ha				
<b>PESTS</b> Large flax flea beetles: <i>Aphthona euphorbiae</i> , <i>Aphthona flaviceps</i> , etc. Flea beetles, <i>Laspeyresia</i> , thrips, silver moth	<b>Imidor PRO, SC</b> 2,0-2,5 l/t		<b>Karachar, EC</b> 0,1-0,15 l/ha <b>Faskord, EC*</b> 0,1-0,15 l/ha					
<b>WEEDS</b> Annual grass and dicotyledonous weeds Perennial grass and dicotyledonous weeds Annual grass weeds Perennial grass weeds (couch grass) Annual dicotyledonous weeds, including those resistant to 2,4-D and MCPA, and some perennial dicotyledonous weeds Annual dicotyledonous weeds		<b>Sprut Extra, SL*</b> 1,4-2,5 l/ha <b>Sprut Extra, SL*</b> 2,5-4,0 l/ha	<b>Forward, OEC*</b> 0,9-1,2 l/ha <b>Forward, OEC*</b> 1,2-2,0 l/ha <b>Healer, OEC</b> 0,75-1,0 l/ha <b>Healer, OEC</b> 1,0-1,5 l/ha <b>Censor Max, OEC*</b> 0,6-0,7 l/ha <b>Censor Max, OEC*</b> 1,4-1,6 l/ha <b>Zinger, WP</b> 0,007-0,01 kg/ha <b>Zinger, WP</b> 0,005-0,007 kg/ha+ <b>Lintaplant, SL</b> 0,3 l/ha <b>Lornet, SL*</b> 0,1-0,3 l/ha <b>Fenizan, SL*</b> 0,14-0,2 l/ha <b>Lintaplant, SL</b> 0,8-1,0 l/ha					
<b>Micro- and organo-mineral fertilizers for pre-sowing seed treatments, root top and foliar dressings</b>	<b>Biostim Start</b>		<b>Biostim Oilseed</b> <b>Biostim Universal</b> <b>Ultramag Phosphorus Active</b> <b>Ultramag Super Sulfur-900</b> <b>Ultramag Combi for oilseeds</b> <b>Ultramag Phosphorus Super</b> <b>Ultramag Potassium</b> <b>Potassium Humate Sufler</b> <b>Ultramag Boron</b>					
<b>Microbiological fertilizers</b>	<b>Biocomposite Correct Azafok</b>	<b>Biocomposite Destruct</b> <b>Biocomposite Correct Azafok</b>	<b>Biocomposite Correct Azafok</b>					











\* The product is registered for fibre flax and oil flax

# Comprehensive protection of rapeseed

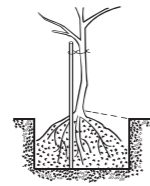
										
Harmful object		seeds; before sowing; before sprouting	seedlings	frondescence	rosette formation	stem formation	budding	flowering	pod formation	seed ripening
		00	07-10	11-19	21-29	31-39	50	61-65	71	81
DISEASES	Root rots, downy mildew, seed molding, Alternaria blight	Scarlet, ME 0,4 l/t								
	Alternaria blight, Phoma rot, powdery mildew			Titul 390, CSC 0,26-0,32 l/ha Daizy, SE 0,6-0,8 l/ha		Misteria, ME 1,0-1,25 l/ha	Titul DUO, CSC 0,4-0,5 l/ha	Titul Trio, CSC 0,4-0,6 l/ha		
PESTS	Crucifer flea beetles	Imidor PRO, SC 15-20 l/t Harita, SC 4,7-5,8 l/t Bombarda, SC 10-15 l/ha	Imidor, SL 0,15 l/ha Beretta, OD 0,3-0,4 l/ha Sparring, OD 0,1-0,2 l/ha Meadows, OD 0,075-0,15 l/ha Pirelli, EC 0,5 l/ha Lokustin, SC 0,2 l/ha							
	Common pollen beetle, crucifer flea beetles, diamond-back moth, etc.			Kinfos Neo, EC 0,2-0,4 l/ha Lokustin, SC 0,2-0,4 l/ha Pirelli, EC 0,5-1,0 l/ha Sparring, OD 0,1-0,3 l/ha		Apex, OEC 0,2-0,5 l/ha Espero, SC 0,15-0,2 l/ha Imidor, SL 0,15-0,25 l/ha Imidor Extra, SC 0,15-0,25 l/ha	Karachar, EC 0,1-0,15 l/ha Faskord, EC 0,1-0,15 l/ha Beretta, OD 0,3-0,4 l/ha Meadows, OD 0,075-0,25 l/ha			
WEEDS	Annual and perennial dicotyledonous and grass weeds	Sprut Extra, SL 1,4-4,0 l/ha								
	Annual grass and dicotyledonous weeds	Gals, EC 0,2 l/ha								
	Annual and perennial dicotyledonous weeds			Reper, CSC 0,8-1,0 l/ha		Reper Trio, OD 0,2-0,3 l/ha				
	Annual grass weeds, annual and perennial dicotyledonous weeds (for imidazolinone-resistant rapeseed varieties and hybrids)			Ilion, OD* 0,8-1,2 l/ha						
	Thistle, chamomile, knotweed, and lettuce species			Lornet, SL 0,3-0,4 l/ha						
	Annual grass weeds			Forward, OEC 0,9-1,2 l/ha		Healer, OEC 0,75-1,0 l/ha				
Perennial grass weeds			Forward, OEC 1,2-2,0 l/ha		Healer, OEC 1,0-1,5 l/ha					
Dessication										Tongara, SL 1,5-2,0 l/ha
Prevention of pod shatter										Selfi 1,0 l/ha
Micro- and organo-mineral fertilizers for pre-sowing seed treatments, root top and foliar dressings	Potassium Humate Sufler Biostim Start			Ultramag Molybdenum	Biostim Growth			Ultramag Phosphorus Active/ Super	Ultramag Super Sulfur-900	
				Ultramag Combi for oilseeds		Ultramag Boron	Biostim Oilseed	Biostim Universal		
Microbiological fertilizers	Biocomposite Correct Biocomposite Destruct			Biocomposite Correct Azafok						

\* Ilion, OD: for imidazolinone-resistant spring rapeseed

# Comprehensive protection of potato

										
Harmful object	tubers; before planting	before sprouting	sprouting	frondescence (height <5 cm)	frondescence (height <15 cm)	budding	flowering and tuber formation	tuber ripening	top wilting	placement in storage
	00	03	09	11	19	51	61	69-89	91	
DISEASES	Rhizoctonia blight, Fusarium blight	<b>Kagatnik, SL</b> 0,5-0,8 l/t <b>Depozit, ME</b> 0,25-0,4 l/t <b>Depozit Supreme, ME</b> 0,25-0,4 l/t <b>Puaro, SC</b> 0,25-0,4 l/t								
	Late blight and Alternaria blight			<b>Metamil MC, WG</b> 2,0-2,5 kg/ha	<b>Shirma, SC</b> 0,3-0,4 l/ha	<b>Indigo, SC</b> 4,0-5,0 l/ha				
	Various tuber rots									<b>Kagatnik, SL</b> 0,25-0,4 l/t <b>Stakkato, L</b> 1,0-3,0 l/ha
PESTS	Wireworms, Colorado beetle, aphids	<b>Imidor PRO, SC</b> 0,2-0,25 l/t <b>Bombarda, SC</b> 0,5-0,7 l/t								
	Colorado beetle, potato tuber moth, ladybirds, aphids			<b>Imidor, SL</b> 0,1 l/ha <b>Imidor Extra, SC</b> 0,1 l/ha	<b>Faskord, EC</b> 0,07-0,1 l/ha	<b>Kinfos, EC</b> 0,15-0,2 l/ha <b>Porfir, SC</b> 0,04-0,05 l/ha	<b>Beretta, OD</b> 0,4 l/ha <b>Sparring, OD</b> 0,1-0,3 l/ha			
WEEDS	Annual and perennial dicotyledonous and grass weeds		<b>Sprut Extra, SL</b> 1,4-4,0 l/ha							
	Annual grass and dicotyledonous weeds		<b>Brig, SC</b> 2,0-3,5 l/ha <b>Versia, OD</b> 2,5-3,0 l/ha	<b>Versia, OD</b> 2,5-3,0 l/ha						
	Annual dicotyledonous and grass weeds		<b>Zontran, CSC</b> 1,1-1,4 l/ha (once)							
	Perennial grass weeds (couch grass), annual grass weeds, and some dicotyledonous weeds		<b>Zontran, CSC</b> 1 l/ha (first treatment)	<b>Zontran, CSC</b> 0,4-0,6 l/ha (second treatment)						
	Annual dicotyledonous weeds		<b>Lintaplant, SL</b> 1,2 l/ha			<b>Lintaplant, SL</b> 1,2 l/ha				
	Annual and perennial grass weeds			<b>Forward, OEC</b> 0,9-2,0 l/ha						
Micro- and organo-mineral fertilizers for pre-sowing seed treatments, root top and foliar dressings	<b>Potassium Humate Sufler</b> <b>Biostim Start</b>			<b>Ultramag Potassium</b> <b>Ultramag Calcium</b>	<b>Ultramag Combi for potato</b> <b>Ultramag Chelate Zn-15/ Mn-13/ Fe-13/ Cu-15</b>	<b>Biostim Universal</b> <b>Ultramag Boron</b> <b>Potassium Humate Sufler</b>	<b>Ultramag Phosphorus Active/ Super</b> <b>Ultramag Super Sulfur-900</b>			
Microbiological fertilizers	<b>Biocomposite Correct</b> <b>Biocomposite Destruct</b> <b>Azafok</b>				<b>Biocomposite Correct</b> <b>Azafok</b>					

# Comprehensive protection of gardens (apple trees)

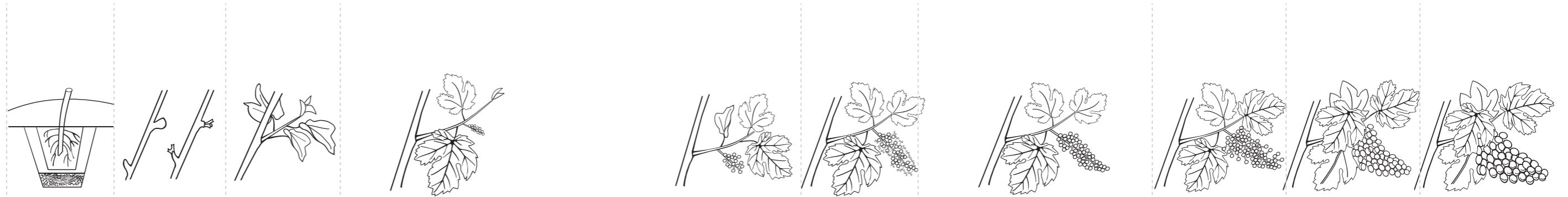


Harmful object	during orchard set-up	'green cone'	budding	advancing - detachment of buds	'pink bud'	flowering	end of flowering	start of fruit setting	'hazel' fruit	'walnut' fruit	fruit growth	fruit ripening		
DISEASES	Scab, blossom wilt	Indigo, SC 3,0-5,0 l/ha		Katrex, SC 4,0-6,0 l/ha			Katrex, SC 4,0-6,0 l/ha							
	Alternaria blight, fruit rot, powdery mildew	Kantor, SCS 0,65-0,75 l/ha (2-times)												
	Scab	Kaperang, SC 2,5-3,0 l/ha	Granny, SC 1,0-1,4 l/ha			Shirma, SC 0,5-0,75 l/ha			Shirma, SC 0,5-0,75 l/ha (3-times)		Granny, SC 1,0-1,4 l/ha (5-times)		Kaperang, SC 2,5-3,0 l/ha	
	Scab, powdery mildew, Phyllosticta leaf spot, fruit rot, fruit rot during storage	Sulphur 400, SC 6-16 l/ha	Medeya, ME 0,8-1,2 l/ha		Riviera, ME 0,8-1,0 l/ha		Kapella, ME 0,8-1,0 l/ha		Medeya, ME 0,8-1,2 l/ha (3-4-times)		Biocomposite PRO, L 1,0-3,0 l/ha (4-times)		Insignia, OD 0,8-1,0 l/ha	
	Blossom wilt						Kaperang, SC 2,5-3,0 l/ha		Kaperang, SC 2,5-3,0 l/ha					
PESTS	Apple blossom weevil						Theja, SC 0,18-0,3 l/ha Karachar, EC 0,1-0,15 l/ha		Twingo Euro, OD 0,75-1,2 l/ha Twingo, SC 0,75-1,2 l/ha Meadows, OD 0,06-0,36 l/ha					
	Apple sucker, mites, armoured scales	Mekar, ME 0,75-1,0 l/ha	Akardo, CSC 0,4-0,6 l/ha Diflomite, SC 0,24-0,45 l/ha		Mekar, ME 0,75-1,0 l/ha			Akardo, CSC 0,4-0,6 l/ha Diflomite, SC 0,24-0,45 l/ha					Mekar, ME 0,75-1,0 l/ha	
	Leafroller moths	Theja, SC 0,3-0,45 l/ha Kinfos, EC 0,4-0,5 l/ha		Twingo, SC 0,75-1,2 l/ha Karachar, EC 0,4 l/ha		Porfir, SC 0,15-0,3 l/ha			Theja, SC 0,3-0,45 l/ha Karachar, EC 0,4 l/ha		Twingo, SC 0,75-1,2 l/ha Kinfos, EC 0,4-0,5 l/ha		Porfir, SC 0,15-0,3 l/ha	
	Apple worm						Theja, SC 0,3-0,45 l/ha Karachar, EC 0,4 l/ha Kinfos, EC 0,4-0,5 l/ha Apex, OEC 0,5-0,8 l/ha		Twingo, SC 0,75-1,2 l/ha Twingo Euro, OD 0,75-1,2 l/ha Yunona, ME 0,5 l/ha Meadows, OD 0,06-0,36 l/ha					
Improved survival of nursery plants, root development	Mikoryze Korennik													
Growth regulator to stimulate fruit formation								Gibbera, SL						
Fruit thinning										Saldo, SL				
Protection from sunburns											Furshet			
FOLIAR DRESSINGS	Increased productivity and resistance to stress	Biostim Universal (up to 5 times)			Ultramag Phosphorus Active/ Super			Ultramag Super Sulfur-900						
	Improved balance of Fe, Cu, Mn, and Zn	Ultramag Chelate Fe-13			Ultramag Chelate Cu-15			Ultramag Chelate Mn-13		Ultramag Chelate Zn-15		Ultramag Super Zinc-700		
	Improved fruit setting and growth	Ultramag Boron						Ultramag Boron						
	Improved quality and sugar content of fruit	Ultramix Growth/ Development						Ultramag Potassium						
	Improved quality of fruit and resistance to physiological spot during storage								Ultramag Calcium		Ultramag Calcium Active		SK2020	

To protect gardens from hail and birds, Schelkovo Agrohimp suggests using the net produced by Betanet LLC

The frequency of use per season is indicated

# Comprehensive protection of grapes



Harmful object	establishing a vineyard	gemination and budding	3-5 leaves	formation	of inflorescences	flowering	formation and growth of berries		prior to berry bounding in bunches	beginning of berry colouring	ripeness
				advancing of inflorescences	loosening of inflorescences		'rice' berry	'pea' berry			
DISEASES	Mildew, black spot		Shirma, SC 0,5-0,75 l/ha (3-times) Kaperang, SC 2,5-3,0 l/ha Metamil MC, WG 2.5 kg/ha	Granny, SC 1,0-1,4 l/ha Riviera, ME 0,6-0,7 l/ha			Shirma, SC 0,5-0,75 l/ha Kaperang, SC 2,5-3,0 l/ha		Granny, SC 1,0-1,4 l/ha Metamil MC, WG 2.5 kg/ha		
	Mildew, black spot, grey mold		Indigo, SC 4,0-6,0 l/ha (2-times)						Indigo, SC 4,0-6,0 l/ha		
	Powdery mildew, grey mold		Sulphur 400, SC 10-16 l/ha			Titul 390, CSC 0,15-0,25 l/ha		Titul 390, CSC 0,15-0,25 l/ha (3-times)			
	Powdery mildew, grey mold, black rot, black spot			Medeya, ME 0,8-1,2 l/ha (2-times)	Riviera, ME 0,6-0,7 l/ha		Kapella, ME 0,8-1,0 l/ha				
	Grey mold, black rot, berry rots							Kantor, SCS 1,7-2,6 l/ha (3-times), last treatment: at least 10 days before harvesting			
Mildew, powdery mildew, grey mold			Biocomposite PRO, L 1,0-3,0 l/ha								
PESTS	Spider mite, grape erineum mite		Akardo, CSC 0,4 l/ha (2-times) Diflomite, SC 0,2-0,4 l/ha (once)	Mekar, ME 0,75-1,0 l/ha			Akardo, CSC 0,4 l/ha (2-times) Mekar, ME 0,75-1,0 l/ha	Diflomite, SC 0,2-0,4 l/ha			
	European grapevine moth			Twingo, SC 0,75-1,2 l/ha				Twingo, SC 1,2 l/ha (2-times)		Yunona, ME 0,3-0,4 l/ha (once)	
	Citrus flatid planthopper, leafhoppers			Tagor, EC 1,2-3,0 l/ha Karachar, EC 0,32-0,48 l/ha		Kinfos, EC 0,4-0,5 l/ha Porfir, SC 0,15-0,25 l/ha	Tagor, EC 1,2-3,0 l/ha Kinfos, EC 0,4-0,5 l/ha	Karachar, EC 0,32-0,48 l/ha Porfir, SC 0,15-0,25 l/ha			
	Brown marmorated stinkbug									Twingo, SC 1,2 l/ha Kinfos, EC 0,3-0,5 l/ha Karachar, EC 0,32-0,48 l/ha	
Improved survival during planting, growth, and nutrition	Mikoryze Korennik										
Protection from sunburns								Furshet (1-3-times)			
FOLIAR DRESSINGS	Increased productivity and resistance to stress		Biostim Universal (5-times)		Ultramag Phosphorus Active/ Super				Ultramag Super Sulfur-900		
	Prevention and management of mineral deficiency		Ultramag Super Zinc-700	Ultramix Growth/ Development	Ultramag Chelate Cu-15	Ultramag Chelate Mn-13	Ultramag Chelate Zn-15	Ultramag Chelate Fe-13			
	Management of potassium and boron deficiency, improved blossoming and setting, enhanced accumulation of sugars in crops				Ultramag Boron		Ultramag Boron	Ultramag Potassium (1-2-times)			
	Improved quality of berries and resistance to rots				SC2020		Ultramag Calcium / Calcium Active	SK2020			
Microbiological product to prevent berry rots										Biocomposite Correct (1-2-times)	

To protect gardens from hail and birds, Schelkovo Agrohim suggests using the net produced by Betanet LLC

The frequency of use per season is indicated

### Fungicidal seed treatments

33	<b>Bnf.</b> <b>BENEFIS</b>	ME	33	<b>Bnfs.</b> <b>BENEFIS SUPREME</b>	ME	34	<b>Dpz.</b> <b>DEPOSIT</b>	ME	34	<b>Dpzs.</b> <b>DEPOZIT SUPREME</b>	ME	35	<b>Hrkl.</b> <b>HERAKLION</b>	SC
35	<b>Mss.</b> <b>MESSER</b>	ME	38	<b>Plr.</b> <b>POLARIS</b>	ME	38	<b>Prgm.</b> <b>PROTEGO MAX</b>	ME	39	<b>Pu.</b> <b>PUARO</b>	SC	39	<b>Sk.</b> <b>SCARLET</b>	ME
39	<b>Tb.</b> <b>TEBU 60</b>	ME												

### Insecticidal seed treatments

33	<b>Bmb.</b> <b>BOMBARDA</b>	SC	34	<b>Hr.</b> <b>HARITA</b>	SC	35	<b>Impr.</b> <b>IMIDOR PRO</b>	SC
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### Insecto-fungicidal seed treatments

38	<b>Plqt.</b> <b>POLARIS QUATRO</b>	SME	39	<b>Tua.</b> <b>TUAREG</b>	SME
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## Innovative seed treatment formulation: MICROEMULSION

NANOformulation (microemulsion) ensures the most advanced seed protection

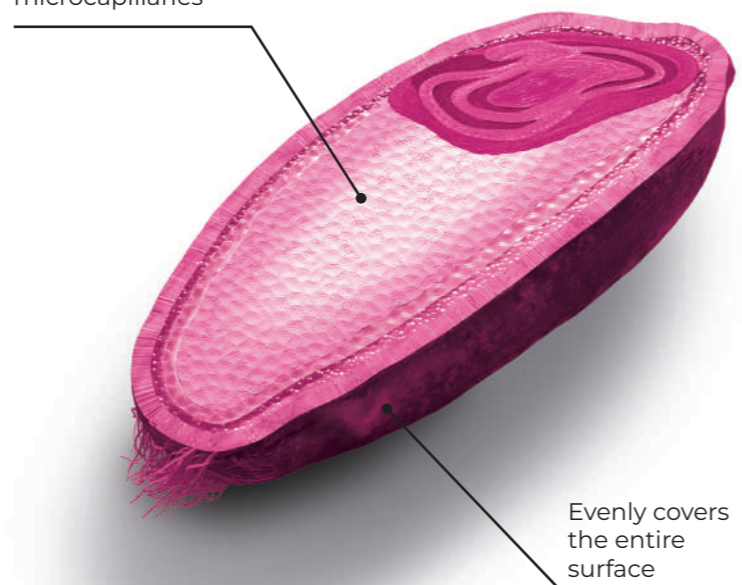
- The fastest and deepest possible penetration of active substances into the seed through microcapillaries, reaching all infection sites, including latent ones
- High-quality seed treatment without the product getting detached and its mechanical losses during storage, transportation, and seeding

## NANOprotection of seeds from both inside and outside

- Protego Max, ME
- Polaris, ME
- Benefis, ME
- Benefis Supreme, ME
- Depozit, ME
- Depozit Supreme, ME

- Scarlet, ME
- Tebu 60, ME
- Polaris Quatro, SME
- Tuareg, SME
- Messer, ME

Penetrates through macro- and microcapillaries



Evenly covers the entire surface

**Bnf.**  
**BENEFIS** ME

*imazalil 50 g/l + metalaxyl 40 g/l + tebuconazole 30 g/l*

Fungicides intended for presowing treatment seeds of cereal and soybean to control a wide range of diseases.

### Advantages

- Highly effective at reduced concentration of the active ingredient due to innovative formulation as microemulsion
- More wide spectrum of action than that of most seed treatments due to combination of three active ingredients
- Formulation as microemulsion ensures maximum penetration of active ingredients into the seed, and powerful and prolonged protection during vegetation period
- Unique effect to control root rots
- High level of fungicidal activity against a complex of diseases
- Bio-activator contained in the formulation has a growth-stimulating action: promotes coleoptiles development and formation of a robust root system
- Higher resistance to drought and frost

**Bnfs.**  
**BENEFIS SUPREME** ME

*imazalil 50 g/l + tebuconazole 30 g/l + mefenoxam 20 g/l*

Fungicidal seed treatment for cereal and soybean seeds in the NANOformulation.

### Advantages

- Unique effect against root rots of various aetiologies with a lower active substance concentration
- Wide spectrum of action and high efficacy under conditions of high infection load
- The best protection of seeds from both inside and outside ensured by the NANOformulation
- Extended protection of seedlings
- Promotion of growth and formation of a well-developed root system resistant to stress factors
- Reduced toxic load on the agocenosis

**Bmb.**  
**BOMBARDA** SC

*thiamethoxam 130 g/l + imidacloprid 90 g/l + fipronil 60 g/l*

The first on the market three-component insecticidal seed protectant for cereal crops and other crops for the best protection of seedlings from soil-inhabiting surface pests and long-term protection of crops during vegetation without additional spraying.

### Advantages

- A new level of insecticidal protection of seeds and seedlings: a strong knockdown effect combined with long-term protection of the rhizosphere and the aerial part of plants
- Effective impact on larvae of all ages and imagos of soil-inhabiting and surface pests
- Triple toxic effect for the elimination of resistant populations and in case of high pest population numbers
- Growth-regulating effect
- Improved crop protection method by cancelling or reducing the number of insecticidal treatments in the growing period
- Highest efficacy irrespective of soil and climatic conditions



*fludioxonil 40 g/l + imazalil 40 g/l + metalaxyl 30 g/l*

Fungicides intended for presowing treatment seeds of soya, pea, chick pea seeds, and potato tubers during or before planting.

### Advantages

- Has a potent fungicidal effect against a complex of diseases due to a combination of three active ingredients that belong to different chemical classes and have different mechanisms of action
- An ingredient of fludioxonil belongs to the chemical class of phenylpyrroles with a special, fundamentally different mechanism of action against pathogens, which enhances the product efficacy
- The microemulsion formulation provides the maximum penetration of active ingredients into the seed
- Due to the systemic action, the product is effective against superficial and internal seed infections, as well as a number of pathogens that damage plants in a later period of vegetation
- The fungicidal effect occurs immediately after treatment
- Promotes an active start and stimulates the formation of a thick root system
- Has no retardant effect



*fludioxonil 40 g/l + imazalil 40 g/l + mefenoxam 15 g/l*

A special-purpose fungicidal seed treatment for grain legume, industrial crop, etc.

### Advantages

- The best protection of seeds from both inside and outside ensured by the NANOformulation
- Control of the broadest range of seed-borne and soil infections with a lower active substance concentration
- The best efficacy against Fusarium pathogens
- Reliable control of root rots, including Pythium root rots
- Complete absence of retardant effect
- Protection and formation of strong roots
- Active promotion of green matter formation, starting from the early development phases of the crop
- Reduced toxic load on the agrocenosis



*thiamethoxam 600 g/l*

Systemic insecticidal for the presowing treatments seeds of cereal seeds, sugar beet and other crops against a complex of soil and surface seedling pests.

### Advantages

- Reliable protection of seedlings against a complex of soil and surface pests
- High systemic activity of the product and rapid action
- Long-term protective effect
- Stable protective effect regardless of external conditions



*thiram 400 g/l + tebuconazole 25 g/l + azoxystrobin 15 g/l*

A unique contact systemic fungicidal protectant with a bactericide effect for treatment of seeds of cereal crops, soybeans, peas, and sunflower.

### Advantages

- The most effective seed protectant in its class due to the emergence of 3 components: an antibacterial effect in combination with fungicidal protection
- A wider spectrum of effect on pathogens, including Oomycetes
- Soil disinfection around the seed bed
- Active impact on biological and physiological processes in plants: strong stimulating effect
- Cost-effectiveness and highly effective protection



*imidacloprid 200 g/l*

Insecticides of systemic action intended for pre sowing treatment seeds of cereal and other crops.

### Advantages

- Crop protection at most vulnerable sprouting stage
- Control of pests in soil and on sprouts
- Prolonged protective period
- Systemic action
- Savings due to omission of several insecticidal treatments during vegetation
- Extermination of pests populations resistant to carbofuran formulations
- Efficient regardless of ambient conditions



*mefenoxam 210 g/l + fludioxonil 25 g/l*

A special-purpose fungicidal seed treatment for sunflower seeds in the NANOformulation.

### Advantages

- A perfect combination of active substances with the maximum spectrum of action
- Full control of soil and seed-borne infections
- The best efficacy against downy mildew, Fusarium blight and other diseases of sunflower
- The most efficient formulation (microemulsion)
- Is intended for both industrial use at seed production companies and agricultural use



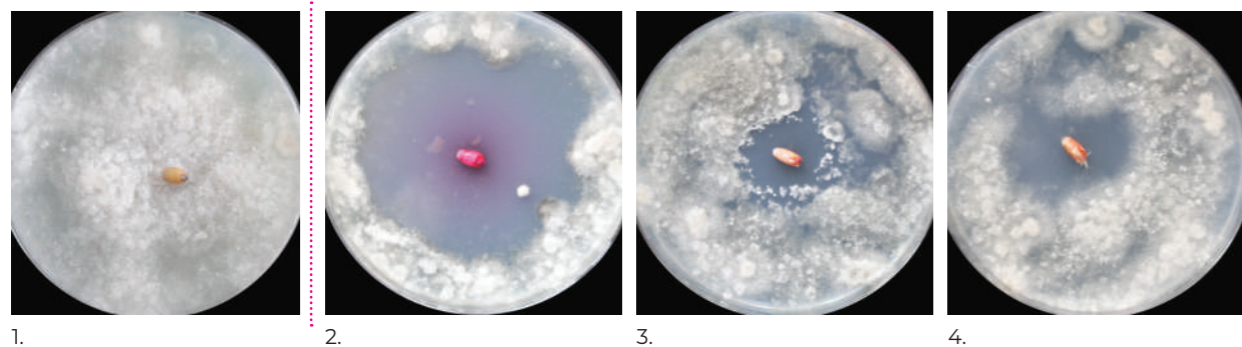
*acetamiprid 150 g/l + prochloraz 100 g/l + tebuconazole 20 g/l + pyraclostrobin 15 g/l*

A combination insectofungicidal seed treatment for cereal crop seeds in the innovative formulation.

### Advantages

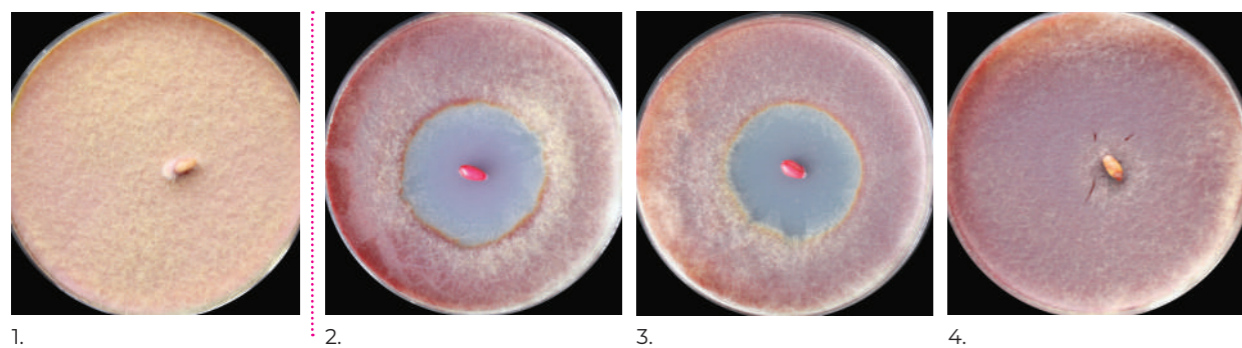
- Three-in-one: a complex-action product (protection from diseases + protection from pests + physiological effect for the crop)
- Is effective against the pathogens of snow mould, root rot of various aetiologies, Fusarium blight, Septoria blight
- Provides effective control of surface and soil-dwelling pests
- Promotes growth and development of strong and healthy roots
- Enhances productive tillering and green leaf effect
- Increases resistance to adverse soil and climatic conditions, including drought
- Is suitable for all sowing times, including late sowing

## Fungicidal activity of seed treatments against root rot pathogens



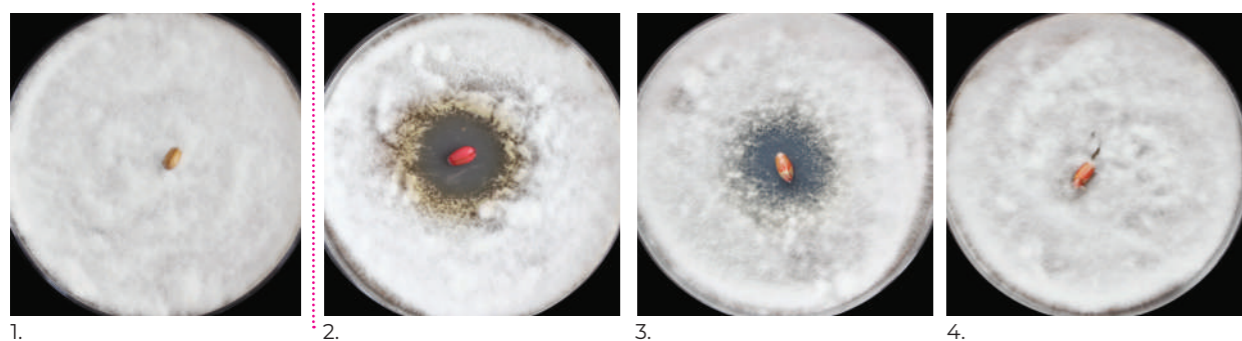
*Bipolaris sorokiniana*:  
Helminthosporium root rot pathogen

1. Control
2. Benefis, ME
- 3-4. Two- and four-component seed treatments, SC



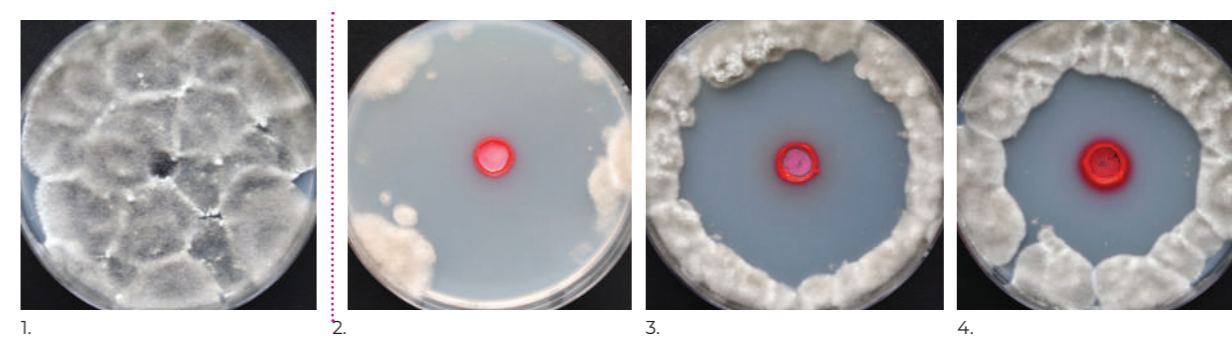
*Fusarium culmorum*:  
Fusarium root rot pathogen

1. Control
2. Benefis, ME
3. Polaris, ME
4. Two-component seed treatment, SC



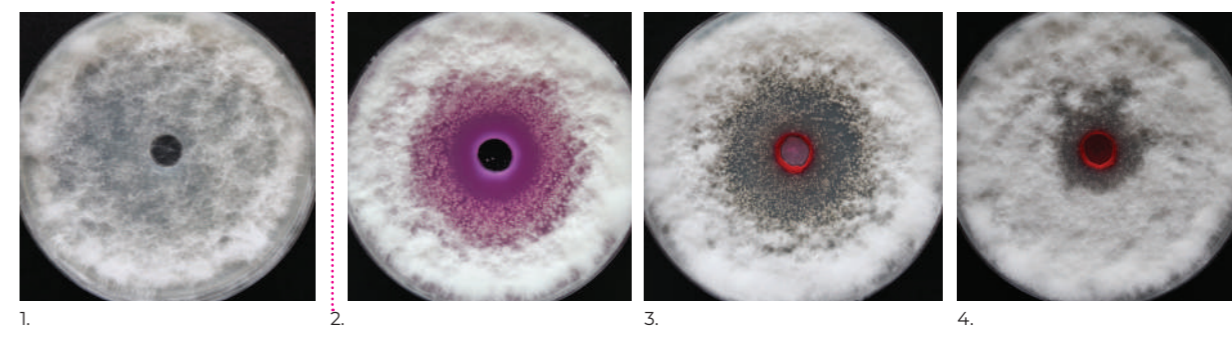
*Microdochium nivale*:  
Fusarium mould pathogen

1. Control
2. Polaris, ME
- 3-4. Two- and four-component seed treatments, SC



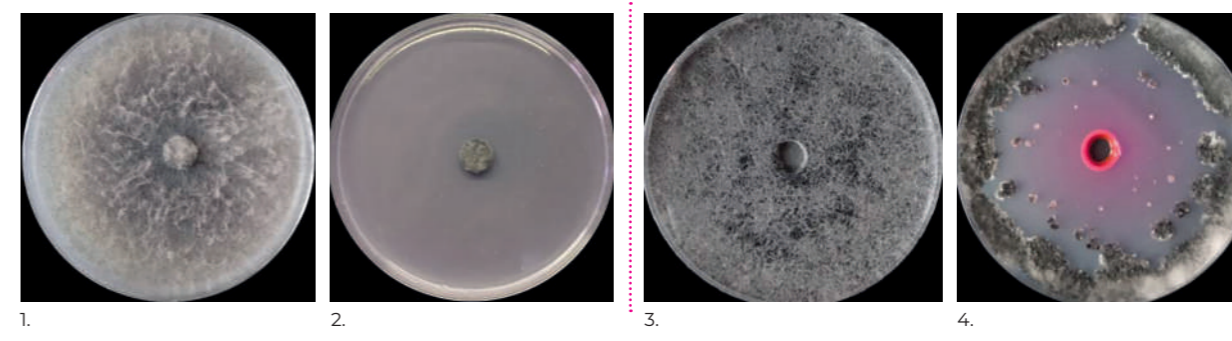
*Bipolaris sorokiniana*:  
root rot pathogen

1. Control
2. Heraklion, SC
- 3-4. Two- and four-component seed treatments, SC



*Fusarium oxysporum*:  
root rot pathogen

1. Control
2. Protego Max, ME
- 3-4. Two- and four-component seed treatments, SC



*Macrophomina phaseolina*:  
sunflower charcoal rot pathogen

- Pathogen culture cutting method:
1. Control
  2. Messer, ME (100% efficacy)
- Perforation method:
3. Control
  4. Messer, ME

**Pir.**  
**POLARIS** ME

*prochloraz 100 g/l + imazalil 25 g/l + tebuconazole 15 g/l*

Fungicidal seed treatment intended for pre-planting treatment of cereal seeds.

#### Advantages

- Highly effective at reduced concentration of the active ingredient due to innovative formulation
- Formulation as microemulsion ensures maximum penetration of active ingredients into the seed, and powerful and prolonged protection during vegetation period
- Wider spectrum of action than that of most seed disinfectants due to combination of three active ingredients
- Highly efficient for pre-planting treatment of seeds and local soil disinfection
- Stronger effect against snow mold
- Bio-activator contained in the formulation has a growth-stimulating action: promotes coleoptiles development and formation of a robust root system
- Higher resistance to drought and frost

**Prgm.**  
**PROTEGO MAX** ME

*prothioconazole 75 g/l + pyraclostrobin 25 g/l + tebuconazole 25 g/l*

A fungicidal seed protectant in an innovative formulation for protection of cereal crops and obtaining high yields under conditions of increased risk of diseases.

#### Advantages

- Premium class protection ensured by the new, most effective combination of the 3 most active ingredients and innovative formulation
- Maximum efficacy under conditions of high infection load and long-term protection from seed to flag leaf stage
- Improved action against pathogens causing Fusarium blight, Septoria spot, and diseases of rhizosphere
- Immunostimulatory effect
- A pronounced physiological effect: strong sprouts and root system, high tillering index, improved photosynthetic activity
- High cold hardiness and resistance to drought and temperature extremes
- Maximum yield and high-quality grain

**Pu.**  
**PUARO** SC

*pyraclostrobin 40 g/l + fludioxonil 40 g/l*

Two-component fungicidal protectant for seeds of grain legume crops and potato tubers.

#### Advantages

- Effective control of fusarium and other diseases
- Compatible with inoculants and has no negative effect on rhizobia bacteria
- Growth-stimulating effect and protection against stress at early stages of vegetation

**Sk.**  
**SKARLET** ME

*imazalil 100 g/l + tebuconazole 60 g/l*

Fungicides intended for presowing treatment seeds of cereal, maize, rape, soybean, peas and sunflower to control a wide range of diseases.

#### Advantages

- Highly effective at reduced concentration of the active ingredient due to innovative formulation as microemulsion
- More wide spectrum of action than that of most seed treatments due to combination of two active ingredients
- High level of fungicidal activity, including to control *Helminthosporium* and *Fusarium* root rots, *Oidium*, *seed molding*, *Septoria blight*, etc.
- Prolonged protective period from seed sprouting to tubing stage and flag stage
- Promotes coleoptiles development and formation of a robust root system
- Higher resistance to drought and frost
- No losses of the formulation during transport and sowing
- Mix stability maintained for an unlimited time
- Imazalil reducing the risk of resistance

**Tb.**  
**TEBU 60** ME

*tebuconazole 60 g/l*

Fungicides intended for presowing treatment seeds of cereal and common flax to control a wide range of diseases.

#### Advantages

- Highly effective at reduced concentration of the active ingredient due to innovative formulation as microemulsion
- Microemulsion penetrates inside a seed via microcapillaries, and protects the entire macro- and microstructure to control a wide range of seed and soil infections
- Fungicide of curative and preventive action
- High selectivity with regard to crops treated and no adverse effect on seed germination
- Bio-efficient from seed sprouting until crop tillering
- Easy to use: does not form dust, easily diluted in water to form a stable colloid solution

**Tua.**  
**TUAREG** SME

*imidacloprid 280 g/l + imazalil 34 g/l + tebuconazole 20 g/l*

Insecticides-fungicides intended for presowing treatment seeds for cereal. Efficient control over the distribution of seed and soil infection and protection of sprouts to control pests.

#### Advantages

- A combination of three active ingredients ensuring a high level of protection against diseases and pests
- Seed protection from inside and from outside
- The fungicide in the form of microemulsion ensures maximum penetration of its active ingredients inside the seed, and gives it a powerful and prolonged protection throughout the vegetation period
- The insecticide in the form of suspension concentrate remains on the seed protecting it thoroughly at the beginning of the vegetation period
- Contributes to the emergence of amicable shoots and reliably protects the crops under conditions of drought and excess moisture
- Saves labor costs for preparing the working solution

## Herbicides



42	<b>Azt.</b> <b>ACETAL PRO</b> EC	42	<b>Act.</b> <b>ACTION</b> SC	42	<b>Arg.</b> <b>ARGO</b> ME	42	<b>Argp.</b> <b>ARGO PRIME</b> ME	44	<b>Bnt.</b> <b>BENITO</b> CSC	44	<b>Blls.</b> <b>BALLISTA</b> OD
44	<b>Btr.</b> <b>BETAREN 22</b> OEC	44	<b>Btr.</b> <b>BETAREN 320</b> OD	45	<b>Btrm.</b> <b>BETAREN MAX</b> OD	45	<b>Btre.</b> <b>BETAREN EXPRESS AM</b> EC	45	<b>Btrs.</b> <b>BETAREN SUPER MD</b> OEC	45	<b>Brv.</b> <b>BRAVURA</b> SC
46	<b>Br.</b> <b>BRIG</b> SC	46	<b>Czm.</b> <b>CENSOR MAX</b> OEC	46	<b>Cns.</b> <b>CENSOR</b> EC	46	<b>Cnz.</b> <b>CONCEPT</b> OD	47	<b>Corn.</b> <b>CORNEGI</b> SE	47	<b>Cpl.</b> <b>CORNEGI PLUS</b> OD
47	<b>Dmb.</b> <b>DAMBA</b> SL	47	<b>Drt.</b> <b>DROTIK</b> CSC	49	<b>Est.</b> <b>ESTAMP</b> EC	49	<b>Fmd.</b> <b>FEMIDA</b> OD	49	<b>Fn.</b> <b>FENIZAN</b> SL	49	<b>Frts.</b> <b>FORTISSIMO</b> OD
50	<b>Frw.</b> <b>FORWARD</b> OEC	50	<b>Gls.</b> <b>GALS</b> EC	50	<b>Gz.</b> <b>GEIZER</b> CSC	50	<b>Glk.</b> <b>GLOK</b> WG	52	<b>Gra.</b> <b>GRANAT</b> WG	52	<b>Hlr.</b> <b>HEALER</b> OEC
52	<b>Hrm.</b> <b>HERMES</b> OD	52	<b>Grmf.</b> <b>HERMES FORTE</b> OD	53	<b>Iln.</b> <b>ILION</b> OD	53	<b>Kss.</b> <b>KASSIUS</b> SP	53	<b>Knd.</b> <b>KONDOR</b> WG	53	<b>Kndf.</b> <b>KONDOR FORTE</b> OD
54	<b>Kpzh.</b> <b>KUPAZH</b> WG	54	<b>Lin.</b> <b>LINTAPLANT</b> SL	54	<b>Lor.</b> <b>LORNET</b> SL	54	<b>Mitr.</b> <b>MITRON</b> SC	55	<b>Oct.</b> <b>OCTAVA</b> OD	55	<b>Ove.</b> <b>OVSUGEN EXPRESS</b> EC
55	<b>Ovs.</b> <b>OVSUGEN SUPER</b> EC	55	<b>Pin.</b> <b>PINTA</b> OD	57	<b>Pix.</b> <b>PIXEL</b> OD	57	<b>Prs.</b> <b>PRIMADONNA SUPER</b> CSC	57	<b>Pri.</b> <b>PRIMADONNA</b> SE	58	<b>Rpr.</b> <b>REPER</b> CSC
58	<b>Rprt.</b> <b>REPER TRIO</b> CSC	58	<b>Rst.</b> <b>RESTYLE</b> OD	58	<b>Riz.</b> <b>RIZOTTO</b> OD	59	<b>Snf.</b> <b>SANFLO</b> WG	59	<b>Shk.</b> <b>SHKVAL</b> SL	59	<b>Spr.</b> <b>SPRUT EXTRA</b> SL
61	<b>Tnt.</b> <b>TANTO</b> CSC	61	<b>Uni.</b> <b>UNIKO</b> CSC	61	<b>Vrs.</b> <b>VERSIA</b> OD	62	<b>Zng.</b> <b>ZINGER</b> WP	62	<b>Zon.</b> <b>ZONTRAN</b> CSC		

## Desiccant

63  
**Tng.**  
**TONGARA**  
SL





*propisochlor 720 g/l*

Herbicide to control annual grass and dicotyledonous weeds in sunflower, soybean, sugar beet and maize crops.

### Advantages

It is used both as a soil herbicide and post-emergence herbicide with a long protective period  
It ensures the purity of seedlings at the early stages of crop growth and development, thus controlling a wide range of weeds  
High selectivity excludes the risk of phytotoxic effect even under conditions of abundant rainfall and low temperature  
It ensures the purity of seedlings throughout the growing period  
It has no restrictions for crop rotation



*ethofumesate 500 g/l*

Herbicide for controlling annual dicotyledonous and grass weeds on sugar beet and white lupine plantings.

### Advantages

High biological effect to control weeds having a strong wax protective layer (for example, *Chenopodium album*)  
Reliable control of annual dicotyledonous weeds, including green amaranth and some grass weeds  
Weed penetration both through leaves and roots



*fenoxaprop-P-ethyl 80 g/l + mefenpyr-diethyl 30 g/l + clodinafop-propargyl 24 g/l*

System herbicide to control annual grass weeds in spring and winter wheat crops.

### Advantages

Maximum herbicide effect attained by the combination of two active synergetic ingredients  
High rate of weed penetration due to its innovative formulation  
Good compatibility with anti-dicotyledon formulations  
Higher stress resistance of crops due to the antidote



*fenoxaprop-P-ethyl 90 g/l + clodinafop-propargyl 45 g/l + cloquintocet-mexyl (antidote) 40 g/l*

Graminicide in the NANOformulation to protect wheat crops against a wide range of annual grass weeds.

### Advantages

Good effect against a wide range of grass weeds with an optimal concentration of active substances  
The most efficient NANOformulation, compared to conventional analogues  
High rate of penetration and resistance to precipitation washout  
No phytotoxic effect on the crops  
A wide application window regardless of the crop development phase  
Good compatibility in tank mixtures with anti-dicotyledon preparations



### The efficacy of herbicides



1.

2.

3.

Elimination of grass weeds of spring wheat  
1. **Argo, ME**, 1.0 L/ha  
2-3. **Argo Prime, ME**, 0.5 L/ha



1.

2.

3.

Soybean  
1. Treated with **Benito, CSC**, 2.0 L/ha  
2-3. Untreated control



1.

2.

3.

Sugar beet  
1-2. Two treatments with **Betaren Super MD, OEC**, 1.2 L/ha, in combination with anti-dicotyledon herbicides  
3. Untreated control



*mesosulfuron methyl 30 g/l + flumetsulam 17 g/l + florasulam 12 g/l + mefenpyr-diethyl (antidote) 90 g/l*

Cross-spectrum herbicide for cereal crops protection.

### Advantages

A unique product in terms of combination of active ingredients and formulation  
Control of mixed weed infestation without the need for preparing tank mixtures  
Control of tough weeds: cheat grass, jointed goat grass, etc.  
A wide application window in spring and autumn  
No phytotoxicity  
Without restrictions for crop rotation



*bentazone 300 g/l*

Postemergence herbicide to control annual dicotyledonous weeds in soybean and pea crops.

### Advantages

Innovative formulation and enhanced formulation of bentazone provide for:  
- Increased herbicidal activity compared with conventional preparations based on bentazone salt  
- High penetration rate and rapidity of action  
- Reduction in the amount of active ingredient per hectare without loss of efficiency  
Flexible application times allowing for integration into any soybean protection schemes  
It has no restrictions for crop rotation



*phenmedipham 110 g/l + desmedipham 110 g/l*

Postemergence herbicide to control annual dicotyledonous weeds, including *Amaranthus*, on sugar beet plantings.

### Advantages

Highly effective at reduced concentration of the active ingredient due to innovative formulation OEC  
Highly efficient to control annual dicotyledonous weeds, including *Chenopodium album*, on beet plantings  
Highly compatible as part of prepared mixtures with other herbicides to enhance the spectrum of action



*desmedipham 160 g/l + phenmedipham 160 g/l*

A highly effective postemergent herbicide to control annual dicotyledonous weeds in sugar beet crops.

### Advantages

Highly effective in control of annual dicotyledonous weeds, including goosefoot, amaranth species, and others  
Rapid destruction of weeds because of high penetration power due to oil formulation  
Excellent compatibility with other herbicides in tank mixtures to expand the action spectrum



*etofumesate 126 g/l + desmedipham 80 g/l + fenmedipham 64 g/l*

Post-emergence herbicide in oil formulation against a wide range of weeds with enhanced action on dicotyledonous species.

### Advantages

Highly effective oil formulation significantly accelerates the product penetration and enhances herbicidal action  
Higher etofumesate content postpones the emergence of the second wave of weeds  
Improved formulation for enhanced action against dicotyledonous weeds  
Excellent compatibility with other herbicides in tank mixtures to expand the action spectrum



*phenmedipham 60 g/l + desmedipham 60 g/l + ethofumesate 60 g/l*

Postemergence herbicide to control annual dicotyledonous weeds as well as some annual grass on sugar and fodder beet plantings.

### Advantages

Highly effective to control annual dicotyledonous and some grass weeds at their early stages of development  
Highly compatible as part of prepared mixtures with other herbicides to enhance the spectrum of action  
Fast herbicide action



*ethofumesate 126 g/l + phenmedipham 63 g/l + desmedipham 21 g/l*

Postemergence herbicide to control annual dicotyledonous weeds, as well as some annual grass on sugar beet crops.

### Advantages

Highly effective at reduced concentration of the active ingredient due to innovative formulation OEC  
Does not have phytotoxic action on the crop  
Highly effective to control annual dicotyledonous and some grass weeds at their early stages of development  
Highly compatible as part of prepared mixtures with other herbicides to enhance the spectrum of action  
Presence of ethofumesate penetrating through leaves and roots ensures a long-term beet protection from weeds



*aclonifene 600 g/l*

Herbicide for sunflower protection during the growing season.

### Advantages

New mechanism of action against resistant weeds  
Safe protection of classical sunflower during the growing season without after-effects  
Features a soil screen  
Effectively controls major dicotyledonous weeds



prometryn 500 g/l

Soil-applied herbicide for major crop protection programs.

### Advantages

Strategic approach: weed control at all stages of competition with the crop, starting from the earliest ones  
The destruction of a wide range of annual weeds, including a number of tough species  
Long protective period  
No residual effect on subsequent crops in the crop rotation  
Viable option: one herbicide for use on many crops cultivated on farm



clethodim 120 g/l

A highly efficient grass-active herbicide intended to control all types of grass weeds on plantings of sugar beet, lupine, soybean, and other crops.

### Advantages

A more effective oil formulation of the product compared with conventional emulsion analogs  
Better parameters of wetting and penetration into weed plants  
Effective at high air temperatures due to long-term preservation of active ingredients in a liquid state  
The use of the stabilizer adhesive is not required since it contains a sufficient amount of adjuvants  
Rapid manifestation of the herbicidal effect  
Cost-effective under the conditions of high weediness with annual grass weeds



clethodim 240 g/l

Highly efficient postemergence herbicide intended to control annual and perennial grass weeds on plantings of sugar beet, onion, and soybeans.

### Advantages

Exterminates nearly all annual and perennial grass weeds, including malicious ones (*Elytrigia repens* and other)  
No usage limitations with regard to crop development phase  
High efficiency at reduced doses regardless of soil and climatic conditions



imazamox 38 g/l + chlorimuron-ethyl 12 g/l

Postemergence selective herbicide of systemic effect intended to control annual grass and dicotyledonous weeds on soybean plantings.

### Advantages

Highly effective at reduced concentration of the active ingredient due to innovative formulation OD  
Ideal combination of active ingredients  
Most extended spectrum of action on weeds at soybean plantings  
Prolonged protective period  
Exposure on weeds through leaves and roots  
Soil herbicidal activity



terbutylazine 250 g/l + 2,4-D acid /2-ethylhexyl ether/ 80 g/l + nicosulfuron 30 g/l

New option for long-term control of a wide range of weeds in maize.

### Advantages

Innovative, unparalleled herbicide for maize protection  
An effective combination of three active ingredients of different classes in an advanced formulation for the best result  
Increased herbicidal activity against a wide range of grass and dicotyledonous weeds, including tough ones and species with late germination terms  
Reinforced soil screen  
A longer period of culture protection  
No residual effect on rotation crops



terbuthylazine 250 g/l + 2,4-D acid /2-ethylhexyl ether/ 80 g/l + clopyralid /2-ethylhexyl ether/ 40 g/l + nicosulfuron 30 g/l

Cross-spectrum herbicide for maize protection

### Advantages

Extended spectrum of action and increased efficacy on dicotyledonous weeds  
Soil screen  
No residual effect on rotation crops  
A unique oil formulation for maximum efficacy



dicamba acid /dimethylamine salt/ 480 g/l

Systemic postemergence herbicide to control a wide range of dicotyledonous weeds in cereal crops and maize.

### Advantages

It shows high biological efficiency against a wide range of dicotyledonous weeds, including the toughest ones  
It suppresses weeds resistant to 2,4-D, MCPA and triazines  
It has a strong synergism with the product containing 2,4-D, MCPA, sulfonyleureas, triazines, glyphosates  
It is a highly effective component of tank mixtures for enhancing herbicidal action  
It has no restrictions for crop rotation  
It has a milder effect on the crop compared with 2,4-D-based preparations



2,4-D acid /2-ethylhexyl ether/ 400 g/l

Selective postemergence herbicide of systemic effect intended to control annual and perennial dicotyledonous weeds on cereal and maize plantings.

### Advantages

Highly effective at reduced concentration of the active ingredient due to innovative formulation CSC  
Highly efficient to control perennial difficult-to-eradicate weeds (*Sonchus*, *Cirsium*, *Lactuca tatarica*, *Convolvulus arvensis*, *Euphorbia*)  
Rain-resistant: is not washed off by rain in one hour after treatment  
Remains efficient in drought conditions  
Herbicidal activity starts to appear at +5 °C  
No crop rotation limitations  
Excellent component for prepared mixes with sulfonyleurea herbicides





## The efficacy of herbicides



1. 2. 3.

Maize  
1. Treated with **Cornegi, SE**, 2.0 L/ha  
2-3. Untreated control



1. 2. 3.

Sugar beet  
1-2. The effect of **Censor Max, OEC**,  
on grass weeds  
3. Control



1. 2. 3.

Soybean  
1-3. **Geizer, CSC**, effect on weeds



*pendimethalin 330 g/l*

Pre-emergence herbicide intended to control annual grass and dicotyledonous weeds on agricultural crop plantings.

## Advantages

- Excellent efficiency in controlling a wide range of annual grass and dicotyledonous weeds
- Used for soil treatment before crop emergence, thus eliminating competition with weeds at earlier stages of crop growth
- Prolonged protective period
- High and steady efficiency in various soil and climatic conditions



*2,4-D acid /2-ethylhexyl ether/ 320 g/l + chlorsulfuron acid 4.2 g/l*

Postemergence herbicide in the oil formulation against a wide range of dicotyledonous weeds in cereal crops.

## Advantages

- A unique combination of active substances from two widely used chemical classes
- A broader spectrum of action against dicotyledonous weeds, compared to 2,4-D-based herbicides
- High efficacy against annual and offset weeds, including those resistant to 2,4-D
- The most efficient oil formulation
- Long-term retention of herbicidal properties regardless of weather conditions
- Soil screen formation



*dicamba acid 360 g/l + chlorsulfuron acid 22.2 g/l*

Postemergence herbicide intended to control dicotyledonous weeds on cereal crops and common flax plantings.

## Advantages

- Proprietary formulation of a widely known combination of two active ingredients with a bioactivator
- Wide spectrum of action
- Maximum efficiency with minimum cost of treatment per 1 ha
- Prolonged application timing - until cereal evolving into tube
- Recommended for autumn treatment of winter crops
- All owed for aerial treatment



*2,4-D acid /2-ethylhexyl ether/ 200 g/l + aminopyralid 10 g/l + florasulam 5 g/l*

Herbicide for protecting cereal crops against a wide range of dicotyledonous weeds.

## Advantages

- Maximum efficacy against dicotyledonous weeds, including perennial ones
- Unparalleled efficacy against bedstraw and other annual wintering and spring weeds
- Effective control of goosefoot as well as sunflower and rapeseed drop
- Effect on the root system of offset weeds, including thistle
- Consistent performance in adverse weather conditions due to innovative oil formulation



**quizalofop-P-ethyl 60 g/l**

Postemergence herbicide intended to control annual and perennial grass weeds on plantings of sugar beet, soybeans, rape, sunflower, common flax, oilseed flax, pea chickpea and other crops.

**Advantages**

- Highly effective at reduced concentration of the active ingredient due to innovative formulation OEC
- Efficient to control most malicious grass weeds - *Elytrigia repens*, *Avena fatua*, *Echinochloa crus-galli*, etc.
- Exterminates weeds together with their root system
- Compatibility with other formulations in mixes
- Treatment regardless of crop growth phase
- No crop rotation limitations



**clomazone 480 g/l**

A pre-emergence herbicide with long-term effect in the soil against annual grass weeds and dicotyledonous weeds in rapeseed, sugar beet and soybean crops.

**Advantages**

- Controls a wide range of mixed-type annual weeds
- A perfect solution against goosefoot, bedstraw, buttonweed and sunflower drop
- Is efficient in all soil types
- Requires no mechanical working-in
- Can be used on soybean seedlings



**bentazone 300 g/l + quizalofop-P-ethyl 45 g/l**

Selective systemic contact postemergence herbicide to control annual dicotyledonous and annual and perennial grass weeds in soybean and pea crops.

**Advantages**

- The ingredient of bentazone as an acid enhances the herbicidal effect versus the traditional bentazone salt-based products
- Has a high penetration rate and speed of response due to the innovative formulation
- Exhibits high biological efficiency with a reduced amount of active ingredients
- Has a wide application window regardless of the crop development phase
- A tank mixture with anti-cereal herbicides is not required



**florasulam 150 g/kg +iodosulfuron-methyl-sodium 60 g/kg + mefenpyr-diethyl antidote 60 g/kg**

Systemic herbicide to combat a wide range of dicotyledonous weeds in cereal crops.

**Advantages**

- Elimination of cleaver and other problematic weeds
- Low application rates: economical treatment of 1 ha and optimized logistics costs
- High efficiency at low temperatures of +5°C and higher



**The efficacy of herbicides**



1. 2. 3.

1-2. **Fortissimo, OD**, 0.7 L/ha, winter wheat after treatment  
3. Untreated control



1. 2. 3.

1-3. **Forward, OEC**, elimination of grass weeds of soybean



1. 2. 3.

1-3. The effect of **Hermes, OD**, 1.0 L/ha on specific weeds (Day 7 after treatment)



*tribenuron-methyl 750 g/kg*

Postemergence herbicide of systemic effect intended to control annual dicotyledonous weeds, including those 2.4-D and MCPA resistant weeds on cereal.

### Advantages

Highly efficient at low consumption rates  
Highly selectivity with regard to cereal crops  
No limitations for rotating crops  
Wide range of application periods in terms of crop growth phases  
Efficient at min. ambient temperature of 5°C  
Economical and easy to apply and store  
Compatible with most pesticides, which makes is suitable for integrated protection purposes



*quizalofop-P-tefuryl 40 g/l*

Postemergence herbicide of systemic effect intended to control annual and perennial grass weeds in crop plantings.

### Advantages

Highly effective at reduced concentration of the active ingredient due to innovative formulation OEC  
Inhibits a wide range of grass weeds even at late growth stages  
Prevents regrowing of rootstock weeds  
Flexible herbicide application timing regardless of crop growth phases  
Efficient at any soil and climatic conditions  
Resistant to rain



*quizalofop-P-ethyl 50 g/l + imazamox 38 g/l*

Postemergence selective herbicide of systemic effect intended to control annual dicotyledonous weeds, and annual and perennial grass weeds on sunflower, pea, soybean and chick-pea plantings.

### Advantages

Highly effective at reduced concentration of the active ingredient due to innovative formulation OD  
Highly efficient combination of two active ingredients from various classes  
Reliable protection of annual dicotyledonous weeds, and annual and perennial grass weeds  
Resistance to washing-off by precipitation  
Efficient to control all agrotypes of broomrape



*imazamox 30 g/l + quizalofop-P-ethyl 20 g/l + imazapyr 12 g/l*

Postemergence herbicide for protecting imidazolinone-resistant sunflower against a wide range of weeds.

### Advantages

Effective solution for weed control when growing imidazolinone-resistant sunflower  
Increased activity against dicotyledonous weeds  
Provides a reinforced soil screen  
A unique oil formulation for maximum herbicidal effect



*imazamox 40 g/l + clopyralid 90 g/l*

Herbicide intended to control annual grass and dicotyledonous weeds on imidazolines-resistant rape.

### Advantages

Selective systemic herbicide adsorbed by leaves and roots  
Effect in a couple of hours  
Complete loss of weeds on the 3rd-15th day after treatment  
Special control of Dindle, Canadian Thistle, Foalfoot, Camomile, Morgan  
Maximum effect due to the preparative form (oil dispersion)



*rimsulfuron 250 g/kg*

Selective herbicide of systemic effect intended to control annual and perennial dicotyledonous and grass weeds on maize and potato plantings.

### Advantages

Ravages the broadest range of grass and dicotyledonous weeds  
Kassius application fully replaces pre-emergence and postemergence treatment with herbicides  
Low consumption rates  
No crop rotation limitations  
Activity does not depend on weather conditions  
Low toxicity to the warm-blooded



*triflusulfuron-methyl 500 g/kg*

Postemergence herbicide of systemic effect intended to control annual dicotyledonous weeds on sugar beet plantings.

### Advantages

Control of a broad range of weeds after beet emergence  
Termination of weed growth in 2 hours after treatment  
High selectivity toward the crop  
High efficiency in any weather conditions  
Important element of beet protection system



*triflusulfuron-methyl 120 g/l*

A highly effective systemic herbicide in oil formulation intended to control a wide range of annual dicotyledonous weeds in sugar beet plantings.

### Advantages

Most effective oil formulation of the product compared with "dry" analogs  
Additional inclusion of surfactant is not required as the product contains a sufficient amount of adjuvants  
Control of tough weeds (butterweed, red-root amaranth, etc.)  
High efficiency in any weather conditions  
Expanded spectrum of action and enhanced herbicidal activity of Betaren series products  
Decreased consumption rates for sugar beet herbicides when used timely



**thifensulfuron-methyl 750 g/kg**

Postemergent herbicide to control annual dicotyledonous weeds in soybean and maize. An ideal component of the tank mixtures to enhance the herbicidal effect.

**Advantages**

- Highly effective component of the tank mixture to enhance the herbicidal effect
- The elimination of most species of annual dicotyledonous weeds, including those resistant to 2,4-D and triazines
- Reliable control of tough weeds (species of the cruciferous family, amaranth, cocklebur, etc.)
- Without restrictions for crop rotation



**MCPA 500 g/l**

Selective herbicide of systemic effect intended to control annual dicotyledonous weeds on cereal, potato, flax, pea and other plantings.

**Advantages**

- Efficient protection of critical agricultural crops
- Controls a wide range of annual dicotyledonous weeds
- Highly selective
- Has a systemic effect



**clopyralid 300 g/l**

Postemergence selective herbicide intended to control various species of *Sonchus*, *Matricaria*, and *Polygonum* on crops.

**Advantages**

- Irreplaceable for controlling difficult-to-eradicate weeds, such as *Sonchus*, *Matricaria*, *Polygonum* and others
- Ravages both the aboveground portion and root system of weeds due to its systemic effect
- Protects throughout the vegetation period
- Demonstrates synergy in mixtures with other herbicides recommended to control dicotyledonous and grass weeds



**metamitron 700 g/l**

Systemic herbicide intended to control multiple species of annual dicotyledonous weeds on beet plantings.

**Advantages**

- Ensure initial planting cleanliness as a pre-emergence herbicide
- Produces a powerful "screen" against subsequent weed emergence
- Mild effect upon the crop
- Extended protective period when used as a component of mixes with betaren series herbicides
- Acts in a more wide range of temperatures than betanal group formulations
- Maximum efficiency achieved as a result of effect through both soil and leaves



**nicosulfuron 60 g/l + florasulam 3.6 g/l**

Two-component herbicide to control annual and perennial grass, dicotyledonous weeds on maize plantings.

**Advantages**

- Maximum herbicidal effect is achieved due to original combination of two active ingredients from various chemical classes
- Formulation as oil dispersion deeply penetrates weeds and suppress their further growth and development
- Protective period lasts throughout the vegetation period; «soil screen» is produced
- Applied to protect against grass and dicotyledonous weeds, including *Amaranthus*, *Convolvulus*, and *Sonchus*
- Adjuvants contained in the formulation enhance herbicidal effect



**fenoxaprop-P-ethyl 140 g/l + antidote 35 g/l**

Postemergence selective herbicide of systemic effect intended to control annual grass weeds on spring and winter wheat crops.

**Advantages**

- Highly efficient graminicide for wheat
- High selectivity with regard to crops treated
- Wide range of application periods regardless of crop growth phases
- Fast and strong effect through aboveground parts of the plant



**fenoxaprop-P-ethyl 140 g/l + antidote 47 g/l**

Postemergence selective herbicide of systemic effect intended to control annual grass weeds on spring and winter barley (including malt barley) crops.

**Advantages**

- Highly efficient graminicide for barley
- High selectivity with regard to crops treated
- Wide range of application periods regardless of crop growth phases
- Fast and strong effect through aboveground parts of the plant



**flumetsulam 50 g/l + florasulam 36 g/l**

Postemergence herbicide in the oil formulation against a wide range of dicotyledonous weeds in cereal crops.

**Advantages**

- Is effective against a wide range of dicotyledonous weeds, including some weeds resistant to 2,4-D and sulphonylureas
- Increased herbicidal activity and quick effect because of the innovative oil formulation
- The best efficacy against Cruciferae and catchweed bedstraw
- Mild effect without herbicidal stress
- Has a wide application window: from tillering till the second internode formation
- No restrictions on crop rotation



## The efficacy of herbicides



1.



2.



3.

Maize after treatment with **Octava, OD**, 1.0 L/ha  
1. One month later  
2. Before harvesting  
3. Untreated control



1.



2.



3.

1-3. **Pixel, OD**, 0.3 L/ha, winter wheat after treatment



1.



2.



3.

1-2. **Primadonna, SE**, 0.6 L/ha + Kassius, SP, 0.05 kg/ha, elimination of weeds of maize after treatment  
3. **Primadonna, SE**, 0.8 L/ha, wheat after treatment



*typhensulfuron-methyl 90 g/l + flumetsulam 24 g/l + florasulam 18 g/l*

Premium-class herbicide for controlling a wide range of dicotyledonous weeds in the late stages of the development of cereal crops.

### Advantages

- High efficiency and rapid action due to innovative oil formulation and synergistic effect of three active ingredients
- Maximum extended spectrum of action for dicotyledonous weeds, including those that are difficult to control
- Effectiveness in overgrown weeds
- Wide window in application phases, from tillering to flag leaf
- Exceptionally mild effects on crops, no loss in the yield due to herbicidal stress
- No restrictions for crop rotation



*2,4-D acid /2-ethylhexyl ether/ 200 g/l + florasulam 5.0 g/l*

Selective postemergence herbicide of systemic effect intended to control annual and perennial dicotyledonous weeds on cereal crop and maize plantings.

### Advantages

- Unique formulation contributing to rapid penetration into plants and arrival at growth points
- Highly efficient two-component herbicide for a wide range of bilobate weeds, including difficult-to-eradicate (sow thistle, catch weed, thistle, etc.)
- Ideal combination of active ingredients ensuring powerful herbicidal actions
- Wide range of application
- No crop rotation limitations
- Excellent compatibility in mixes with other herbicides



*2,4-D acid /2-ethylhexyl ether/ 200 g/l + florasulam 3.7 g/l*

Selective postemergence herbicide of systemic effect intended to control annual and perennial dicotyledonous weeds in cereals.

### Advantages

- Powerful herbicidal effect ensured by synergy of two active ingredients with various mechanisms of action
- Exterminates malicious, difficult-to-eradicate weeds, such as *Galium aparine*, *Matricaria perforata*, *Cirsium Arvense*, *Sonchus Arvensis*, and others
- Has a wide range of application timing: from cereal crop tillering stage to evolving into tube
- Excellent systemic activity of the formulation allows easy and fast (within an hour) penetration into and spread within a weed, while blocking weed growing processes
- High rain resistance: precipitation does not affect its efficiency as early as an hour after treatment



*clopyralid /2-ethylhexyl ether/ 100 g/l + fluroxypyr 15 g/l*

Postemergence herbicide of systemic effect intended to control annual and perennial dicotyledonous weeds on rape plantings.

### Advantages

- Highly effective at reduced concentration of the active ingredient due to innovative formulation CSC
- Efficient control of *Galium aparine* and *Convolvulus arvensis*
- Fast penetration and high bio-efficiency due to unique formulation
- Wide range of application timing
- Elaborate combination of two active ingredients complementing each other prevents the occurrence of weed resistance



*clopyralid /2-ethylhexyl ether/ 267 g/l + picloram 80 g/l + aminopyralid 17 g/l*

A highly effective three-component postemergence herbicide in oil formulation intended to control dicotyledonous weeds on rape plantings.

### Advantages

- A wide spectrum of action due to three systemic herbicide components
- High herbicidal activity due to the highly effective oil formulation and synergism of active ingredients
- The fastest penetration into tissues of treated weeds and long-term retention of herbicidal properties regardless of weather conditions
- Highly effective against such hard-to-control weeds as cleavers, chamomile species, knotweed, amaranth, goosefoot, and other tough species
- Eradication of perennial weeds along with their root system
- Long-term protective period due to soil activity
- Wide range of application timing



*cyhalofop-butyl 190 g/l + bispyribac sodium 50 g/l*

A highly selective two-component herbicide in oil formulation for rice protection against the most harmful weeds.

### Advantages

- A unique unparalleled combination of active ingredients in oil formulation
- Highly efficient against weeds of different families (such as dicotyledonous marsh and grass weeds, including resistant populations of barnyard grass)
- Destruction of growing points and elimination of new sprout growth
- A prolonged protective effect up to 2 months
- Safe for all rice species and varieties



*cyhalofop-butyl 300 g/l + bispyribac sodium 18 g/l*

A highly selective two-component herbicide in oil formulation for rice protection against the most harmful weeds.

### Advantages

- A unique unparalleled combination of active ingredients in oil formulation
- Highly efficient against weeds of different families (such as dicotyledonous and grass weeds, including resistant populations of barnyard grass)
- Selective for all rice species and varieties



*tribenuron methyl 750 g/kg*

Highly effective postemergence herbicide for the cultivation of tribenuron-methyl resistant sunflower.

### Advantages

- Control of a wide range of dicotyledonous weeds over a long period
- High selectivity to tribenuron-methyl resistant sunflower hybrids
- Safety for any subsequent crop rotation



*imazapyr 250 g/l*

Systemic herbicide of continuous action intended to control annual and perennial grass and broad-leaved (including tree species) plants at non-agricultural facilities.

### Advantages

- Much more efficient than glyphosate herbicides
- Excellent soil activity - 100% control of unwanted vegetation for 2 years
- Reliable exterminates herbs, shrubs and trees, including difficult-to-eradicate and quarantine weeds
- May be applied both before weed emergence and over emerged weeds
- Unlimited timing of protective measures
- No adverse effect from precipitation in an hour after treatment
- Quickly penetrates and exterminates plants under a layer of dust and oil
- An innovative method for creating protective mineralized strips



*glyphosate acid /potassium salt/ 540 g/l*

Non-selective systemic herbicide of continuous action intended to exterminate annual and perennial grass and dicotyledonous weeds, grassland, trees and shrubs.

### Advantages

- Most efficient among various glyphosate forms
- Glyphosate as potassium salt promotes fast absorption and spread of the active ingredient along the entire weed, including root system
- Elevated content of the active ingredient allows formulation application in reduced doses
- Optimal content of highly efficient adjuvant in the formulation maximizes bio-efficiency
- No soil activity, no aftereffects for the crop
- Allows application of energy-saving soil protection technologies
- Used at any above-zero ambient temperatures until persistent frost



## The efficacy of herbicides



Rapeseed  
1-2. **Reper, CSC**, 1.0 L/ha, rapeseed after treatment  
3. Untreated control



1-2. **Sprut Extra, SL**, herbicidal effect on weeds  
3. Comparison of soil preparation technology before sowing wheat: on the left, the field was treated with Sprut Extra, SL, before sowing; on the right, the field was not treated (weeds in wheat crops)



Spring barley  
1-2. Treated with **Uniko, CSC**, 1.5 L/ha  
3. Untreated control



**acifluorfen 320 g/l**  
Postemergent herbicide to control annual dicotyledonous weeds in soybean crops.

### Advantages

- Highly effective component of the tank mixture to enhance the herbicidal effect
- Increased herbicidal activity due to innovative formulation
- Pronounced synergism with herbicides on soybean
- The effective control of accumulated weeds that are weakly sensitive to other herbicides in soybean crops
- An ideal option for controlling broadleaf weeds
- Without restrictions for crop rotation



**fluroxypyr 100 g/l + florasulam 2.5 g/l**  
Postemergence selective herbicide with systemic effect for the control of annual and perennial dicotyledonous weeds in cereal crops.

### Advantages

- 100% control of severe, hard-to-control weeds, such as cleavers, black bindweed, field bindweed
- A potent herbicidal effect and an expanded spectrum of susceptible weeds due to the synergism of the two active ingredients with different mechanisms of action
- High efficiency and rapid effect due to the unique formulation
- Wide range of application timing
- High rain tolerance: precipitation does not affect efficacy as early as one hour after treatment
- No restrictions for subsequent crops in crop rotation



**propisochlor 370 g/l + terbuthylazine 185 g/l**  
Pre-emergence herbicide for protecting broad-leaved crops against perennial grass and dicotyledonous weeds.

### Advantages

- A one-of-a-kind soil herbicide
- A unique oil formulation for maximum efficacy
- Protects the seedlings from a wide range of weeds
- Ensures long-term purity of crops
- High selectivity reduces the possibility of phytotoxic effects on crops



*metsulfuron-methyl 600 g/kg*

Selective herbicide of systemic effect intended for postemergence treatment of cereal crops and common flax to control annual dicotyledonous weeds, including 2,4-D and 2M-4X resistant weeds and some perennial dicotyledonous weed and undesired weeds and Sosnovsky cow-parsnip on non-agricultural lands.

### Advantages

- Wide range of action - inhibition of nearly all annual dicotyledonous weeds and some perennial dicotyledonous weeds
- Low consumption rate
- Low cost of treatment rate per hectare
- High flexibility in terms of application timing
- Convenient packing is water-soluble bags
- Moderate toxicity to mammals, virtually harmless to bees
- Bio-efficiency of the formulation virtually does not depend on weather conditions



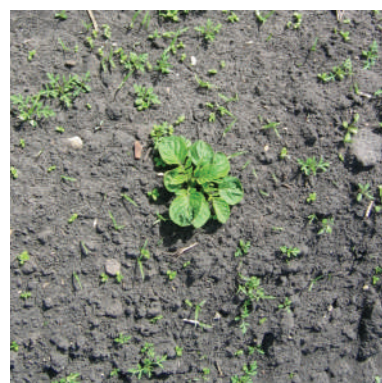
*metribuzin 250 g/l*

Selective pre-emergence and post emergence herbicide intended to control annual dicotyledonous weeds and grass weeds on potato, tomato and soybean plantings.

### Advantages

- Highly effective at reduced concentration of the active ingredient due to innovative formulation CSC
- Most efficient herbicide based on metribuzin for potato and tomato protection
- High bio-activity at consumption rates of the active ingredient reduced by 1.4 to 1.7 times per ha compared to similar dry metribuzin based formulations
- "Screening effect" to prevent emergence of weeds
- Better penetration into the plant
- Reduced pesticide load and cost of treatment
- Mix stability
- The formulation contains bioactivator
- Timely ravage of weeds with Zontran reduces the risk of buck eye rot on potato plantings

### The efficacy of herbicides



1.



2.



3.

Potato  
1. Before herbicide treatment  
2. After treatment with **Zontran, CSC**  
3. Untreated control



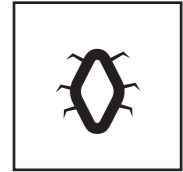
*diquat 150 g/l*

Non-selective contact desiccant for pre-cropping desiccation of sunflower, rape, cereal crops, soybean, and other.

### Advantages

- Fast drying of crops, thus facilitating cropping
- Fast and uniform ripening
- Reduced losses of seeds during cropping
- Facilitates cropping
- Reduced moisture content in seeds





## Insecticides and acaricides

66	<b>Akr.</b> AKARDO	CSC	66	<b>Apx.</b> APEX	OEC	66	<b>Brtt.</b> BERETTA	OD	67	<b>Df.</b> DAKFOSAL	TB	67	<b>Dphl.</b> DIFLOMITE	SC
67	<b>Esp.</b> ESPERO	SC	68	<b>Espe.</b> ESPERO EURO	OD	68	<b>Fsk.</b> FASKORD	EC	68	<b>Imi.</b> IMIDOR	SL	69	<b>Imix.</b> IMIDOR EXTRA	SC
69	<b>Krch.</b> KARACHAR	EC	69	<b>Knf.</b> KINFOS	EC	70	<b>Knfn.</b> KINFOS NEO	EC	70	<b>Lok.</b> LOKUSTIN	SC	70	<b>Mds.</b> MEADOWS	OD
71	<b>Mek.</b> MEKAR	ME	71	<b>Pir.</b> PIRELLI	EC	71	<b>Prf.</b> PORFIR	SC	72	<b>Spr.</b> SPARRING	OD	72	<b>Tgr.</b> TAGOR	EC
72	<b>Tj.</b> THEJA	SC	73	<b>Tw.</b> TWINGO	SC	73	<b>Twe.</b> TWINGO EURO	OD	73	<b>Yun.</b> YUNONA	ME			



**spiroadiclofen 250 g/l**

Contact-action product of insecticide acaricidal chemical class to control mites and other pests on apple, grapes, and soybean crops.

**Advantages**

- A very powerful acaricidal effect due to the active substance of the new chemical class in the innovative formulation
- Special mechanism of action against all stages of mite development
- An active effect on populations resistant to conventional acaricides
- Additional action against armored scales, slow worms, and planthoppers
- Translaminar activity
- Rapid action and high efficiency in all weather conditions



**aluminum phosphide 570 g/kg**

Fumigant insecticide for desinsection in various empty storages, and food, seed and fodder grain stocks in storages and elevator bins that are stored in bulk or bags under a film cover.

**Advantages**

- High fumigant activity
- Exterminates storage pests in hard-to-reach places
- Exterminates insect pests of any age
- No effect of product quality
- Easy touse



**pyriproxyfen 100 g/l**

Hormonal insecticide with an innovative oil formulation for the protection of rapeseed, fruit crops and vegetable crops.

**Advantages**

- A unique mechanism of action that disrupts the hormonal balance in pests
- The most efficient oil formulation, compared to conventional emulsion concentrates
- Has an impact on all stages of pest development
- Rapid toxic effect
- Long-term protection because of high residual activity
- Low-toxic for bees and warm-blooded animals
- A necessary component of complex anti-resistance crop protection programs



**diflovidazin 200 g/l**

A powerful contact acaricide of a new chemical class for control of mites on apple trees, grapes, soybeans, and greenhouse crops.

**Advantages**

- An unparalleled acaricide
- A unique mechanism of action at all stages of a life cycle of various mite species
- Elimination of mites at the back of the leaf by means of translaminar activity
- Effective impact on winter and summer ovipositioning
- Additional sterilizing effect on female mites
- High selectivity to useful entomofauna
- A perfect tool for anti-resistance crop protection programs



**bifenthrin 60 g/l + thiamethoxam 40 g/l + alpha-cypermethrin 30 g/l**

Highly effective three-component insecticide, oil formulation, for control of especially harmful pests of cereal crops, potato, rapeseed, and sugar beet.

**Advantages**

- A new combination of three active ingredients in a highly effective oil formulation
- Strong synergism of active components: toxic effect on various stages of nerve impulse transmission of an insect
- Several mechanisms of action: systemic, contact enteric, translaminar, and repellent
- Strong knockdown effect and long-term protection (up to 35 days) even during mass reproduction periods
- Control of the widest spectrum of the most harmful pests, including diamondback moth, snout beetle, rapeseed beetle, etc
- Effective impact on hiding pests and pests living on the back of the leaf
- Triple toxic effect for the elimination of resistant populations



**imidacloprid 200 g/l + alpha-cypermethrin 120 g/l**

Two-component insecticide having an acute contact-intestinal and systemic effect to control a wide spectrum of pests.

**Advantages**

- Systemic activity and acute contact enteric effect to achieve results quickly
- Reliable control of hiding, sucking, and leaf-eating insects throughout the period of harmfulness
- Elimination of highly hazardous pests, including brown marmorated stink bug, ground beetle, sod webworm, polyphagous cutworms, moth, and others
- Highly effective during mass reproduction periods of harmful insects
- A double toxic effect for the elimination of resistant populations
- Aerial application to treat large areas in a short time



*acetamiprid 100 g/l + alpha-cypermethrin 60 g/l*

A highly effective insecticide in oil formulation for long-term protection of sugar beet against weevils.

### Advantages

- A new combination of active ingredients with different mechanisms of action to eliminate resistant populations of pests
- A highly effective oil formulation provides a more active effect and long protective period
- Reliable control of the most harmful and hiding sugar beet pests
- Highly effective during hot weather
- Rapid action at all motile stages of pests and prolonged action at active development stages inside the stem



*alpha-cypermethrin 100 g/l*

Intestinal contact insecticide of synthetic pyrethroid group to control a wide range of pests of cereal crops, potato, sugar beet, maize, and other agricultural crops.

### Advantages

- Wide spectrum of action
- High speed of toxic action – immediate death of insects
- High efficiency due to elevated contents of active isomers in the active ingredient
- Prolonged protective period
- One of the most efficient and cost effective insecticides



*imidacloprid 200 g/l*

Insecticide of systemic effect to control a wide range of pests on potato, cucumbers, tomato, sugar beet, cereal crops, pastures.

### Advantages

- Neonicotinoid insecticide
- Prolonged protection against most malicious insects
- Efficient use in green houses
- High efficiency in any weather conditions
- No phytotoxic effect



*imidacloprid 200 g/l*

Systemic insecticide from the neonicotinoid class for a wide range of crops.

### Advantages

- New formulation with improved physicochemical properties and high adjuvant content
- Rapid action and long-lasting protection against resistant pest populations
- Additional effect: enhancement of growth processes under stress conditions
- Aerial spraying is allowed



*lambda-cyhalothrin 50 g/l*

Insecticide to control a wide range of pests on agricultural crops.

### Advantages

- Powerful pyrethroid insecticide to control a wide range of pest on various crops
- Fast and prolonged effect
- Acaricide effect
- Low consumption rates and low cost of treatment per 1 hectare



*dimethoate 300 g/l + beta-cypermethrin 40 g/l*

Intestinal contact insecticide to control pests on plantings of cereal crops, sugar beet, potato and other crops.

### Advantages

- Two components with different mechanisms of action
- Synergy of two active ingredients enhance toxic effect of the formulation
- Prolonged protective period
- Highly efficient to control resistant kinds of insects



*dimethoate 300 g/l + alfa-cypermethrin 40 g/l*

Insecticide with acute contact enteric effect for rape protection against pests complex.

### Advantages

- Enhanced toxic effect due to the synergism of two active ingredients with different mechanisms of action
- Effective elimination of larvae and imago of the pests even in places that are hard to reach
- Minimum risk of resistant population emergence
- Potent insecticidal effect
- Prolonged protection due to systemic activity



*diflubenzuron 125 g/l + imidacloprid 110 g/l*

Powerful double-action insecticide to combat locusts, needle- and leaf-eating insects, pests of rapeseed crops.

### Advantages

- Total eradication of locusts and other pests
- Pronounced knockdown effect in controlling imago
- Potent effect on egg raft and larvae of all ages due to a combination of two active ingredients different mechanisms of action
- Shortest possible periods of effect and a long period of protection
- Three applications methods: ground application, aerial application, and aerosol spraying using an aerosol generator



*acetamiprid 200 g/l*

A systemic contact enteric insecticide against cereal, orchard, and oil crop pests.

### Advantages

- High efficiency against the widest range of Homoptera, Coleoptera, Hemiptera, and Lepidoptera pests
- Rapid toxic effect and long-term protection
- A unique oil formulation for maximum efficacy
- High biological efficiency at elevated temperatures
- The only neonicotinoid not toxic to pollinators (bees and bumblebees)
- An essential component of anti-resistance programmes for orchards and vineyards



*abamectin 18 g/l*

Enteric contact insecto-acaricide for the protection of apple trees, grapes and other crops from mites.

### Advantages

- Increased efficacy, faster and longer effect due to the innovative formulation
- Translaminar activity which makes it possible to kill pests even at untreated sites
- High efficiency against the mites resistant to the acaricides of other chemical classes
- An important component of anti-resistant garden protection programs



*chlorpyrifos 400 g/l + bifenthrin 20 g/l*

A unique insecto-acaricide combination with a strong toxic effect on sugar beet, soybean and rape pests.

### Advantages

- Ensures strong knockdown effect and long-term protection
- Has fumigant action and repellent properties and is able to penetrate into plant tissues
- Ensures elimination of pests in hard-to-reach places, as well as pests resistant to other insecticides
- Has perfect acaricidal properties
- Eliminates pests at all stages of their development
- Is highly effective during mass reproduction periods
- Is especially effective against owl moths and weevils
- Retains toxicity at both low and high air temperatures



*chlorantraniliprole 200 g/l*

Highly effective insecticide with a unique mechanism of action against scale pests on apple, grape, vegetable and industrial crops.

### Advantages

- A new and unique mechanism of action
- Acts at all stages of pest development
- High efficacy against pest populations resistant to other classes of insecticides
- Fast initial action and long protective period of up to 3 weeks



*thiamethoxam 150 g/l + fipronil 90 g/l*

A systemic contact enteric insecticide for a wide range of crops.

### Advantages

- A combination mechanism of action due to active substances from different chemical classes
- Control of the widest range of pests: elimination of adult insects and larvae of all ages
- High toxicity and long-term protection
- A unique oil formulation for maximum efficacy
- Effective impact on hiding pests and pests living on the back of the leaf



*dimethoate 400 g/l*

Insecto-acaricide to control a wide range of pests on cereal crops and grapes.

### Advantages

- High initial activity - pests die within the first hours after treatment
- Systemic effect, resistant to rain as early as in 1 hour after treatment
- Efficient to control many insect pests, feasible to use during maximum density of pests in the field



*thiacloprid 480 g/l*

Contact enteric and systemic insecticide used to protect apple trees from gnawing and sucking insects.

### Advantages

- Systemic, translaminar active insecticide
- Rapid effect and guaranteed result
- Long-term protection of gardens from pests complex
- Short waiting period
- Destruction of pest populations that have developed resistance to the insecticides of other chemical classes



*diflubenzuron 180 g/l + imidacloprid 45 g/l*

Contact enteric and systemic insecticide used to protect apple trees, pear trees, and grapes from gnawing and sucking insects.

### Advantages

- Unparalleled insecticide
- Has a potent insecticidal effect due to a combination of two active ingredients that belong to different chemical classes and have different mechanisms of action
- Pest control at all stages of their development: from egg to imago
- Long-term protective effect
- Guaranteed control of pest populations that have developed resistance to the insecticides of other chemical classes
- An excellent component of anti-resistant garden protection programs



*diflubenzuron 180 g/l + acetamiprid 45 g/l*

A combined insecticide with ovicidal effect to protect gardens and vineyards against various pests.

### Advantages

- A unique combination of active ingredients with different mechanisms of action
- It contains neonicotinoid that has a rapid toxic effect and at the same time is low-toxic for bees
- A highly effective oil formulation provides a more active effect and long protective period
- Rapid action at all motile stages of pests
- It has an ovicidal effect

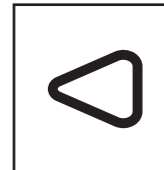


*emamectin benzoate 50 g/l*

Contact enteric insecticide used for control of codling moth, a pest of apple trees and other crops.

### Advantages

- Due to the innovative formulation, provides increased efficacy, rapid action, and prolonged protection
- Has a high biological activity against the codling moth caterpillar
- The product is an insecticide of natural origin, safe for beneficial insects
- Has a short waiting period
- It is highly effective against insect populations that are resistant to the insecticides of other chemical classes



## Pheromone traps

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**Fer.**  
**PHEROMONE**  
**TRAPS**





Schelkovo Agrohim is one of the few companies that synthesises insect pheromones and manufactures traps for over 50 different types of agricultural and forest crop pests.

Pheromones are natural, biologically active substances which have a highly specific effect on one or several allied species of pests. Pheromones have extremely low consumption rates (nanogram quantities), comparable to the natural scent background produced by insects, and their natural origin ensures high ecological safety.

Pheromone traps are an essential component of integrated plant protection. They make it possible to determine the start of flying, changes in insect population development and distribution throughout the season, and the need for and optimal timing of protective measures.

Pheromone production has some specific features. The synthesis of active substances necessitates technological expertise, costly equipment, and high production standards, all of which are in place at Schelkovo Agrohim's production facilities.

## Pheromone traps

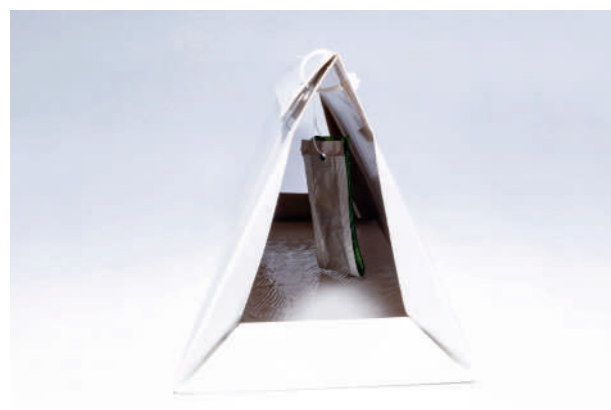


1.



2.

- 1-2. Delta type trap with rubber dispenser
- 3. Delta type trap with foil-foam dispenser
- 4. Barrier trap for Halyomorpha halys



3.



4.



## Pheromone traps for the following types of insect pests

Fruit and berry crop pests	Vegetable and technical crop pests	Forest and ornamental crop pests	Storage pests
<i>Archips crataegana</i>	<i>Etiella zinckenella</i>	<i>Tomicus piniperda</i>	<i>Ephesia kuehniella</i>
<i>Theresimima ampellophaga</i>	<i>Agrotis exclamation</i>	<i>Tortrix viridana</i>	<i>Ephesia elutella</i>
<i>Grapholita molesta</i>	<i>Mythimna separata</i>	<i>Halyomorpha halys</i>	<i>Cadra cautella</i>
<i>Archips podana</i>	<i>Cydia nigricana</i>	<i>Ips typographus</i>	<i>Plodia interpunctella</i>
<i>Lobesia botrana</i>	<i>Plutella xylostella</i>	<i>Tomicus minor</i>	<i>Pyralidae</i>
<i>Eupoecilia ambiguella</i>	<i>Mamestra brassica</i>	<i>Lymantria dispar</i>	
<i>Zeuzera pyrina</i>	<i>Phthorimaea operculella</i>	<i>Diprion pini</i>	
<i>Pandemis heparana</i>	<i>Halyomorpha halys</i>	<i>Neodiprion sertifer</i>	
<i>Halyomorpha halys</i>	<i>Ostrinia nubilalis</i>	<i>Cydalima perspectalis</i>	
<i>Pennisetia hylaeiformis</i>	<i>Loxostege sticticalis</i>	<i>Dendrolimus sibiricus</i>	
<i>Lithocolletis pyrifoliella</i>	<i>Mamestra oleracea</i>	<i>Panolis flammea</i>	
<i>Hedya nubiferana</i>	<i>Agrotis segetum</i>	<i>Dendrolimus pini</i>	
<i>Rhyacionia buoliana</i>	<i>Mamestra suasa</i>	<i>Monochamus</i>	
<i>Rhyacionia duplana</i>	<i>Scrobipalpa ocellatella</i>	<i>Lymantria monacha</i>	
<i>Evetria turionana</i>	<i>Xestia C-nigrum</i>		
<i>Spilonota ocellana</i>	<i>Autographa gamma</i>		
<i>Arhips rosana</i>	<i>Tuta absoluta</i>		
<i>Adoxophyes orana</i>	<i>Helicoverpa armigera</i>		
<i>Grapholita funebrana</i>			
<i>Synanthedon tipuliformis</i>			
<i>Yponomeuta malinellus</i>			
<i>Cydia pomonella</i>			
<i>Synanthedon myopaeformis</i>			



## Fungicides

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80	<b>Ace.</b> <b>ACE</b> CSC	80	<b>Azr.</b> <b>AZORRO</b> SC	80	<b>Bnz.</b> <b>BENAZOL</b> WP	81	<b>Cpl.</b> <b>CAPELLA</b> ME	81	<b>Dz.</b> <b>DAIZY</b> SE
81	<b>Gr.</b> <b>GRANNY</b> SC	81	<b>Ing.</b> <b>INDIGO</b> SC	82	<b>Insg.</b> <b>INSIGNIA</b> OD	82	<b>Kgt.</b> <b>KAGATNIK</b> SL	82	<b>Knt.</b> <b>KANTOR</b> CSC
82	<b>Kpr.</b> <b>KAPERANG</b> SC	84	<b>Ktrx.</b> <b>KATREX</b> SC	84	<b>Med.</b> <b>MEDEYA</b> ME	84	<b>Mtm.</b> <b>METAMIL MC</b> WG	84	<b>Myst.</b> <b>MYSTERIA</b> ME
86	<b>Riv.</b> <b>RIVIERA</b> ME	86	<b>Sh.</b> <b>SHIRMA</b> SC	86	<b>Sul.</b> <b>SULPHUR 400</b> SC	87	<b>Tl.</b> <b>TITUL 390</b> CSC	87	<b>Tld.</b> <b>TITUL DUO</b> CSC
87	<b>Tlt.</b> <b>TITUL TRIO</b> CSC	88	<b>Trd.</b> <b>TRIADA</b> CSC	88	<b>Vnzh.</b> <b>VINTAGE</b> ME	88	<b>Zim.</b> <b>ZIM 500</b> SC		

## Microbiological fungicides

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80	<b>Bcp.</b> <b>BIOCOMPOSITE PRO</b> L	86	<b>Stk.</b> <b>STAKKATO</b> L
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*tebuconazole 160 g/l + pyraclostrobin 80 g/l + prothioconazole 40 g/l*  
**A three-component fungicide in the NANOformulation, with preventive, curative and eradicating properties, for the protection against leaf and ear diseases of cereal crops.**

### Advantages

Control of the most economically important cereal crop diseases, including Gibellina cerealis  
 Effective against Fusarium blight and black spot  
 Quick action with a pronounced stop effect and subsequent long-term protection for up to 4 weeks  
 Immunostimulatory effect  
 A wide application window, both for the prevention and symptomatically  
 Double greening effect  
 High resistance to stress factors  
 Perfect adaptability to weather conditions  
 Ensures maximum yields of cereal crops



*carbendazim 300 g/l + azoxystrobin 100 g/l*  
**Combined fungicide for the protection of cereal crops, soybeans and sugar beet from a complex of diseases.**

### Advantages

Exhibits enhanced fungicidal effect due to the combination of two active ingredients that possess complementary biological properties  
 Provides highly effective protection of winter cereals after wintering and of spring crops against root rot and powdery mildew at the early phases of the crop development  
 Preventative treatment prevents the development of leaf diseases in a later period of crop development  
 Has a preventive, curative, and eradicating effects



*benomyl 500 g/kg*  
**Fungicide of systemic action intended to protect cereal crops and sugar beet to control a wide range of diseases.**

### Advantages

Most efficient formulation to control snow mold on cereal crops  
 Efficient suppression of a pack of diseases  
 Preventive and curative action  
 Extends vegetation period  
 Treatment of winter crops improves crop overwintering capability  
 Treatment of vegetating beet plants reduces losses of root crops from storage decay during storage



*based on Pseudomonas strain*  
**A microbiological fungicide for an integrated fruit and vegetable crop protection system.**

### Advantages

Completely safe for the environment (an EcoPlus product)  
 Unique composition: a highly effective proprietary Pseudomonas strain  
 Inhibits a wide range of phytopathogens and promotes endogenous immunity  
 Increases the resistance to adverse weather conditions  
 Has a growth-promoting effect  
 Has both preventive and curative properties  
 Requires no waiting time after treatment



*propiconazole 120 g/l + flutriafol 60 g/l + difenoconazole 30 g/l*  
**Three-component fungicide intended to protect cereal and other crops.**

### Advantages

Long-term protective effect  
 Increased photosynthesis in flag leaves  
 Suppressed sporification and mycelium growth  
 High effect to control powdery mildew, rust, spotting



*propiconazole 70 g/l + tebuconazole 70 g/l + pyraclostrobin 60 g/l*  
**Universal three-component fungicide with powerful protective and curative effect for cereals and broad-leaved crops.**

### Advantages

A combination protective mechanism: powerful prophylactic effect + «stop effect» + elimination  
 Prevents secondary infection  
 A pronounced curative effect at all stages of the disease  
 Prolonged period of protection  
 Prominent physiological effect



*dithianon 350 g/l*  
**A special-purpose contact fungicide for control of apple scab.**

### Advantages

High fungicidal activity against scab  
 A perfect product for preventive protection from the earliest stages of apple tree development  
 Good adherence to the treated surface and resistance to washout by precipitation  
 Long-term protective screen period  
 A necessary component of an anti-resistance garden protection system ensuring high quality of fruits  
 A convenient liquid formulation



*tribasic copper sulfate 345 g/l*  
**Contact fungicide of preventive action for the professional protection of gardens, vineyards and other crops against a range of diseases.**

### Advantages

An essential element in modern systems of protection of gardens and vineyards  
 An effective method to prevent a range of diseases  
 A broad application window starting from early spring treatments  
 Preservation of fungicidal efficacy at low air temperatures and heat  
 High resistance to flushing from the surface of the plant



cyprodinil 150 g/l + fludioxonil 140 g/l

A highly effective fungicide to protect apple fruits from a wide range of rot pathogens.

### Advantages

- Eliminates a wide range of rot pathogens, including grey mould
- A unique oil formulation provides high resistance to rainwash and high efficacy in a wide temperature range
- Improves the yield quality
- Provides excellent fruit preservation and transportability



benzoic acid 300 g/l

Fungicide with an exceptional physiological effect that prevents mass losses of sugar beetroot crops and potato tubers from decay at the storage facilities and in the field.

### Advantages

- Prevents the spread and development of fungal and bacterial infections in crops and on the roots sugar beet
- Increases the sugar accumulation in root crops by activating the outflow of assimilates from leaves
- Helps to obtain healthy root crops with excellent stability in piles
- Effective and environmentally safe way to protect sugarbeet root crops and potato tubers from storage decay
- Long-term protective period of 90–120 days
- Reduction of losses in root crops and tubers during storage



cyprodinil 200 g/l

System fungicide for the protection of gardens (apple trees, pear trees) and vineyards against a complex of diseases.

### Advantages

- Increased fungicidal activity against a complex of diseases due to an innovative formulation (nanolevel of active ingredient)
- Deep penetration, rapid initial effect, and high eradicating ability
- Effective protection for any infectious load
- Reliable protection of grapes against rot in the period of harvest formation
- Short waiting time when used for grapes
- High fungicidal activity even at a low air temperature (from +3 °C)
- Resistance to washout by rain as early as 2 hours after treatment
- Easy-to-use liquid formulation in contrast to similar products



captan 500 g/l

Fungicide with a protective effect against apple tree and grape pathogens.

### Advantages

- High fungicidal activity against scab and mildew
- Effective disease prevention with long-term protection
- Multifaceted mechanism of action on fungi metabolism, preventing resistance
- An essential element in a garden protection system, in combination with systemic fungicides
- A high-quality liquid formulation provides excellent adhesion and resistance to rainwash



### The efficacy of fungicides



1a. 1b. 1c.

Fungicidal activity of **Kantor, CSC**, in a model experiment with *Monilinia fructigena*, a fruit rot pathogen

1. Kantor, CSC
  2. Analog, WG
  3. Untreated control
- a: Day 4; b: Day 6; c: Day 11



2a. 2b. 2c.



3a. 3b. 3c.



1.



2.



3.

Sugar beet roots in the field  
1. Sugar beet treated with **Kagatnik, SL**  
2-3. Sugar beet without treatment



1.



2.



3.

Sugar beet roots in piles during storage  
1. Roots treated with **Kagatnik, SL**, before placement in storage  
2-3. Without treatment before placement in storage: up to 70% of rotting roots



*thiram 400 g/L*

A special-purpose contact fungicide for protecting fruit crops.

### Advantages

- A basic contact fungicide with high protective potency
- Reliable control of scab and moniliosis
- Non-specific mechanism of action on pathogens, preventing resistance
- Suitable for integrated fruit crop protection
- Has no effect on beneficial insects and is not harmful to pollinators



*difenoconazole 50 g/l + flutriafol 30 g/l*

Systemic fungicide intended to protect gardens and vineyard to control a wide range of diseases.

### Advantages

- Highly effective at reduced concentration of the active ingredient due to innovative formulation as microemulsion
- Bio-efficiency against a number of most harmful diseases due to optimal combination of two active ingredients
- Reliable protection against aerogenic diseases at initial vegetation stages
- High rate of penetration to the infection point and quickest curative effect due to innovative formulation
- Ability to restrain sporogenesis of pathogens and to mitigate secondary contamination, if optimal treatment timing is missed, and symptoms of diseases have already appeared



*mancozeb 640 g/kg + metalaxyl 80 g/kg*

Contact fungicide of systemic action against potato diseases.

### Advantages

- Systemic action ensuring protection of the entire plant, including new shoots
- Dual reliability due to contact and systemic properties
- Preventive and curative action
- Implementation of full crop potential
- Unrivalled protection of potato tubers in the field and storage
- Protection up to 14 days



*pyraclostrobin 80 g/l + tebuconazole 80 g/l + difenoconazole 40 g/l*

A microemulsion fungicide with a strong protective and curative effect against leaf diseases of various etiologies, as well as a pronounced physiological effect.

### Advantages

- A new combination of 3 active ingredients of different chemical classes in an innovative formulation
- A combination protective mechanism: powerful prophylactic effect + «stop effect» + elimination
- Prevention of secondary contamination
- A pronounced curative effect at all stages of the disease
- Improved control of pathogens causing downy mildew, Cercospora spot, Phoma rot
- Prolonged period of protection
- A pronounced physiological effect: longer life of a green leaf, prolonged period of photosynthetic activity, maximum accumulation of sugars and transfer of nutrients to the developing crop



### The efficacy of fungicides



1.



2.



3.

Winter wheat  
1-2. Treated with **Capella, ME**  
3. Untreated control



1.



2.



3.

1-2. Apple tree treated with **Medeya, ME**  
3. Untreated control



1.



2.



3.

1. Potato treated with **Metamil MC, WG**, 2.5 kg/ha, two times  
2-3. Untreated control



*pyraclostrobin 80 g/l + tebuconazole 80 g/l + difenoconazole 40 g/l*

Combined fungicide for the protection of fruit crops and grapes from a complex of diseases.

### Advantages

- Highly effective combination of triazole and strobilurin components for powerful protective action
- Effective against the most damaging diseases, including mildew, oidium, Alternaria blight, scab, and others
- Rapid therapeutic action due to microemulsion formulation



*fluazinam 500 g/l*

Highly effective contact fungicide for controlling potato late blight, apple scab, mildew and black spot of grapevine.

### Advantages

- Protects potato sprouts, destroying the primary infection in the soil and significantly reducing the risk of infection
- Prevents the spread of infection to the healthy tops and excellently protects the tubers from infection
- Effectively protects the apple tree from scab, grapes from mildew and black spotting
- Has a high resistance to rainfall washing, ensuring a stable protection in conditions of watering and precipitation
- Does not have phytotoxicity to culture
- Can be used throughout the growing season, without fear of the emergence of resistant strains of pathogens



*Bacillus amyloliquefaciens 133 (VKPM V-11986), minimum 1x10<sup>9</sup> CFU/mL*

Biological fungicide for the treatment of vegetable products before storage against rot.

### Advantages

- Environmentally safe way to protect root crops, potato tubers, and cabbage from rot during the storage period
- Control of a wide range of fungal and bacterial pathogens during product storage
- Completely safe for humans



*sulphur 400 g/l*

A contact fungicide with acaricidal activity for the protection of grapes and fruit crops.

### Advantages

- Fungicidal protection + acaricidal effect
- An important component for the prevention of Erysiphaceae infection
- High biological efficacy and reliable protection
- The most efficient liquid formulation of sulphur with a smaller active substance particle size
- Excellent contact action and uniform distribution on the treated surface



*propiconazole 390 g/l*

Systemic fungicide to control a wide range of diseases on plantings of cereal crops, sugar beet rapeseed and grape.

### Advantages

- Basic protection in conditions of a moderate infectious background
- High penetration rate to the source of infection and a powerful therapeutic effect
- Long-term protective activity up to 40 days
- The drug from the Eco Plus series with increased biological effectiveness against a complex of diseases
- Profitability of the hectare application rate
- A practical solution for a farm with a wide range of crops
- Aerial treatment allowed



*propiconazole 200 g/l + tebuconazole 200 g/l*

Systemic fungicide to control a wide range of diseases on cereal crops.

### Advantages

- Highly effective at reduced concentration of the active ingredient due to innovative formulation CSC
- A wide range of effects and reliable protection during vegetation
- Protective period up to 40 days
- Fast penetration into the plant and prolonged formulation activity
- Reduced dependence on adverse weather conditions
- No case of resistance
- Growth stimulating activity ('green leaf' effect)
- Extended vegetation period and life of flag
- Quality grain



*tebuconazole 160 g/l + propiconazole 80 g/l + cyproconazole 80 g/l*

A three-component fungicide in an innovative formulation with improved fungicidal activity against a complex of diseases in a broad range of crops.

### Advantages

- A new combination of 3 active ingredients provides powerful elimination and preventive action against the widest range of pathogens
- An innovative colloid formulation ensures maximum manifestation of the target properties of active ingredients
- Immediate arresting of disease and long-term protection, up to 40 days
- Reliable protection of crops under conditions of high infection load
- High efficacy both in case of drought and high humidity
- Stimulating effect on the development of crops and improved photosynthetic activity
- Long-term impact on yield quality



*propiconazole 140 g/l + tebuconazole 140 g/l + epoxiconazole 72 g/l*

Systemic fungicide intended to protect cereal and other crops to control a wide range of diseases.

### Advantages

- Highly effective at reduced concentration of the active ingredient due to innovative formulation CSC
- Three highly efficient active ingredients in optimal proportion
- Indispensable for controlling leaf and stem diseases of cereal crops (Septoria blight, powdery mildew, rust, etc.)
- Fast penetration into the plant and arrest of disease development
- Optimal combination of active ingredients prevents resistance
- Quality grain



*difenoconazole 65 g/l + flutriafol 25 g/l*

Systemic fungicide to control a wide range of diseases in sugar beet, soya, pea, rice and flax.

### Advantages

- High biological effect to control a complex of most harmful diseases due to the optimum combination of two active ingredients
- Reliable protection from air-borne diseases at the initial vegetation phases
- High rate of penetration to the place of infection localization and the fastest curative effect due to the innovative formulation
- The ability to restrain pathogen sporification and to mitigate secondary infection if the optimum spraying time was missed and disease symptoms appeared



*carbendazim 500 g/l*

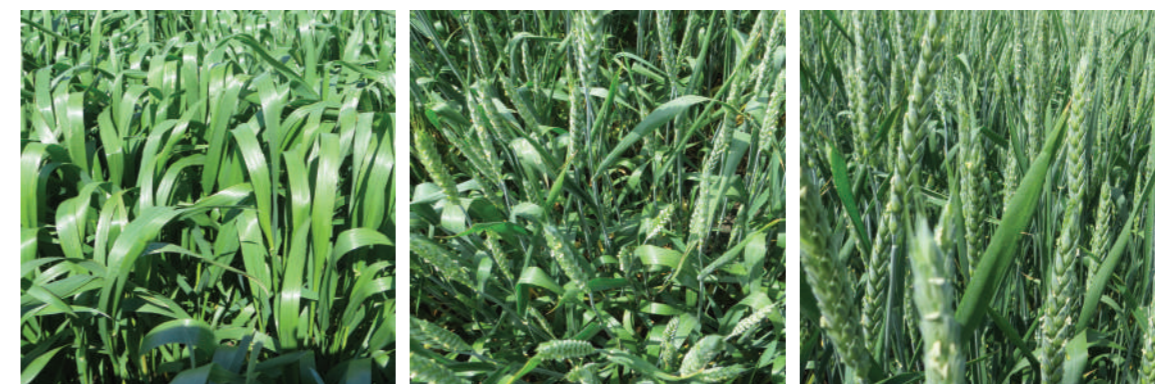
Systemic fungicide intended to protect cereal crops, sugar beet and other agricultural crops to control a wide range of diseases, and to treat seeds of cereal crops.

### Advantages

- Readily producible formulation
- Efficient to control root rots
- Systemic action - protects all organs of a plant
- Preventive, curative and eradicated action
- Efficient suppression of diseases even after their symptoms are manifested
- Prevents drowning of cereal crops



### The efficacy of fungicides

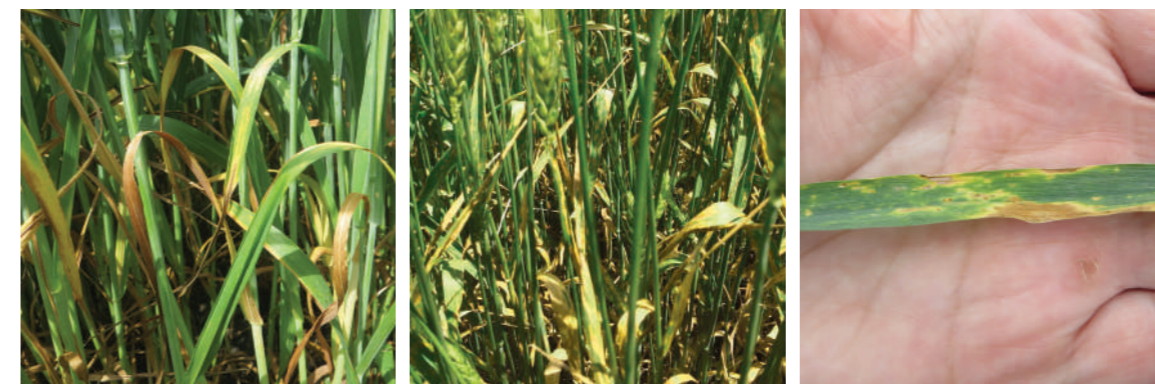


1.

2.

3.

1-3. Winter wheat treated with **Triada, CSC**, 0.6 L/ha  
4-6. Untreated control



4.

5.

6.



1.

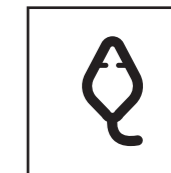
2.

3.

1. Rust of peas crops in untreated control  
2. Peas treated with **Vintage, ME**  
3. Rice treated with **Vintage, ME**

## Rodenticides

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*brodifacoum 2 g/l*

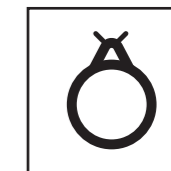
Rodenticide intended for the preparation of poisoned food bait used to combat various types of rodents.

### Advantages

- A coumarin anticoagulant
- Pestilent for rodents, even with a single bait ingestion
- It destroys all types of rodents, including populations that are resistant to other anticoagulant rodenticides
- It has pronounced cumulative properties and skin resorptive effect
- Convenient for making bait
- Due to the oil-based formulation, an even distribution of the active substance in the bait base is achieved

## Molluscocides

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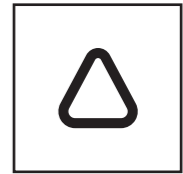


*metaldehyde 60 g/kg*

Contact-entheric molluscicide against slugs and snails on winter wheat crops.

### Advantages

- High efficiency and long-lasting protection up to 3 weeks
- Ready-to-use granules, no additional bait preparation required
- Helps to preserve the harvest



## Plant growth regulator

---

94	■	94	■	94	■	94	■	95	■
<b>Cst.</b>		<b>Gb.</b>		<b>Hfk.</b>		<b>Krk.</b>		<b>Sl.</b>	
<b>COSTANDO</b>	EC	<b>GIBBERA</b>	SL	<b>HEFK</b>	SL	<b>KORENNIK</b>	WP	<b>SALDO</b>	SL



*trinexapac-ethyl 250 g/l*

Plant growth regulator for prevention of lodging of cereal crops and better productivity and grain quality.

### Advantages

- Decreases the risk of lodging by decreasing the internodes length and thickening of straw walls
- Improves wintering of plants by strengthening the roots and increasing the sugar content in autumn
- A wide application window, from tillering to flag development
- A possibility of double application on winter wheat, in autumn and in spring
- No fitotoxicity



*gibberellic Acids A<sub>4</sub>, A<sub>7</sub>, 10 g/l*

Hormonal-type growth regulator to promote fruit formation, accelerate the growth and ripen apple fruits in intensive gardening systems.

### Advantages

- It promotes fruit formation
- It enhances growth and morphogenetic processes
- It accelerates ripening time
- It increases the fruitage
- It prevents cracking and discoloration of fruits
- It improves saleable condition and increases product quality



*ethephon 480 g/l*

The product is intended for use as a plant growth regulator and retardant on plantings of cereal and other agricultural crops.

### Advantages

- Prevents drowning of cereal crops
- Stimulates growth and expansion of the root system, strengthens the stem by reducing the length of internode and increasing stem diameter
- Increases the number of productive stems
- Has a positive effect of yield volume and quality
- Creates favorable conditions for cropping



*4-(indole-3-yl) butyric acid 5 g/kg*

Growth regulator to promote the root formation of cuttings and seedlings of fruit, soft fruit, citrus, flower, and ornamental plants.

### Advantages

- It stimulates lateral and adventitious root formation
- It promotes the development of an extensive root system, better survival ability and encourages the further growth of the cutting or seedling
- It increases survival ability during transplantation, enhances growth processes
- It improves the quality of planting material



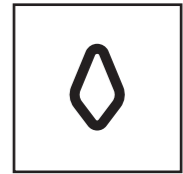
*6-benzyladenine 20 g/l*

Growth regulator of fruit plants (apples, pears) for thinning the ovaries at the early stages of fruit development in intensive gardening systems.

### Advantages

- Enhancing growth and morphogenetic processes
- Increased yields and improved presentation
- Formation of higher quality fruit
- Setting of flower buds for the next year
- Avoiding alternation of fruitful and barren years





## Special-purpose products

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98	<b>Ast.</b> ASSISTANT	98	<b>Frsh.</b> FURSHET	98	<b>Hig.</b> HIGER	98	<b>Lcm.</b> LACMUS	99	<b>Lm.</b> LAMINAR
99	<b>Mkd.</b> MIKADO	EC	99	<b>Slf.</b> SELF					



*organic silicone (modified heptamethyltrisiloxane) – above 80%, auxiliary substances*

Superwetting agent reducing the surface tension of working solutions.

### Advantages

- Reduces the surface tension of working solutions
- Improves adhesion of working solutions to the leaf surface
- Improves resistance of the applied solution to washout by precipitation
- Promotes penetration of the product through the stomata
- Improves the efficacy of products against pests
- Reduces the risk of working liquid crystallisation on the treated surface



*product of mineral origin in the form of suspension*

The product is intended to protect plants from solar radiation in the farming industry

### Advantages

- Dissolves UV rays reducing burns in plants
- Maintains the plant temperature lower than the ambient temperature reflecting IR radiation
- Enhances the moisture utilization efficiency
- Helps to increase the harvest quality and to optimize the use of water resources
- Enhances the vegetative growth and development of plants, the yield and the quality of products



*cellulose derivative, auxiliary substances and water*

A natural sticky agent; an adjuvant improving the quality of plant treatment with working liquid and enhancing the effect of insecticides and fungicides.

### Advantages

- A natural sticky agent
- Upon drying, forms a flexible water-resistant film on plants
- Keeps active substances on the surface of plants
- Enhances the effect of insecticides and fungicides



*orthophosphoric acid, acidity indicator, buffer reagents, adjuvant, water.*

The product is intended to regulate acidity and to improve the quality of water used to prepare working liquids of plant protection products and agrochemicals.

### Advantages

- Improves water quality
- Reduces water hardness and alkalinity
- Improves stability and homogeneity of the working solution
- Reduces the surface tension of the liquid due to the presence of an adjuvant
- Increases the overall efficiency of chemical treatment



*silicone emulsion*

A highly efficient silicone emulsion defoamer.

### Advantages

- Prevents foaming in the working liquid tank
- Reduces the stability of foam formed during the working liquid preparation for pesticides and agrochemicals
- Ensures high-performance plant treatment
- Compatible with all pesticides and agrochemicals



*mixture of fatty acid methyl esters 842 g/L, excipients*

Non-ionogenic adjuvant based on vegetable oil derivatives to improve the biological efficiency of treatment

### Advantages

- Promotes uniform wetting of the leaf surface
- Reduces the evaporation rate of drops, prolonging the contact of the product with a harmful object
- Keeps the active substance semi-liquid, preventing crystallisation on the leaf
- Improves absorption of the product by leaves with a thick waxy layer
- Improves the stability of working liquids

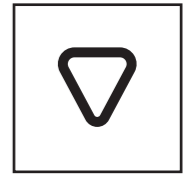


*cellulose derivative, auxiliary substances and water*

The tool is designed for use as a glue that prevents cracking of pods of rapeseed, soybean, peas by creating pods on the surface of the polymer membrane.

### Advantages

- Creates a permeable plastic film that does not interfere with natural maturation of the seeds
- Has a long efficiency, resistant to adverse weather conditions (heat, wind, rain, sunlight)
- Contributes to the preservation of the full potential of the crop
- Reduces losses during harvesting and reduces the cost of post-harvest revision
- Biodegradable, has low toxicity to humans and the environment
- Convenient in application, easily soluble in water
- Is not phytotoxic
- Significantly reduces the problems associated with previous rape



## Microbiological products

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102	<b>NPK</b> AZAFOK	102	<b>Bcc.</b> BIOCOMPOSITE CORRECT	102	<b>Bcd.</b> BIOCOMPOSITE DESTRUCT	103	<b>Miz.</b> MIKORYZE	103	<b>Rizp.</b> RIZOFORM PEAS
103	<b>Rizs.</b> RIZOFORM SOYBEAN								

## Foliar fertilisers containing micronutrients, mesonutrients, and macronutrients

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104	<b>Ulc.</b> ULTRAMAG COMBI	104	<b>Ul.</b> ULTRAMAG	106	<b>Ulmx.</b> ULTRAMIX	106	<b>SK</b> SK2020
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## Organomineral fertilizer based on humic acids

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106	<b>Suf.</b> POTASSIUM HUMATE SUFLER
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## Amino acid biostimulants

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107	<b>Bs.</b> BIOSTIM
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*Consortium of various bacterial strains, total titer not less than 1×10<sup>9</sup> CFU/mL*

A liquid microbiological fertilizer to improve nitrogen, phosphorus, and potassium nutrition.

### Advantages

- Improves the supply of key nutrients: nitrogen, phosphorus, and potassium.
- Wide range of application: soil treatment before seeding, seed and planting material treatment, foliar dressing during the growing period.
- Compatible with chemicals, including seed treatments and other plant protection products, without loss of activity.
- Growth-stimulating effect.
- Fungicidal and bactericidal properties.
- Retains all properties during long-term storage.
- Can be used for outdoor and indoor growing, in all soil types.



*Consortium of various bacterial strains, total titer not less than 1×10<sup>9</sup> CFU/mL*

Microbiological product for any farming systems and all crop rotation links.

### Advantages

- Accelerates straw decomposition and mineralization of stubble remains
- Suppresses disease excitants remaining on plant residues in soil
- Assimilates atmospheric nitrogen enriching the soil with 150 kg/ha per season
- Mobilizes the soil-bound phosphorus transforming it into a highly digestible form
- Efficiently protects farming crops against root system and foliage diseases
- Stimulates the growth and development of plants



*Consortium of various bacterial strains, total titer not less than 1×10<sup>9</sup> CFU/mL*

A microbiological degrader for accelerated decomposition of stubble remains after harvesting.

### Advantages

- Provides quick decomposition of stubble and organic remains in soil
- Efficient both when applied before sowing (planting) and after harvesting crops
- Retains activity in case of drought



*composition based on a consortium of microorganisms*

Microbiological fertilizer to improve survival and promote the growth of nursery plants, seedlings, cuttings.

### Advantages

- Formation of favorable soil microflora
- Stimulation of meristem activity (growth of new tissues)
- Improving nutrient absorption
- More powerful and balanced plant development
- Increasing resistance to abiotic stresses (heat, frost)
- Rise in yield, quality, and taste of fruits
- Better storage and shipping quality of fruits



*Rhizobium leguminosarum D70*

Liquid inoculant based on special nitrogen fixing bacteria strain for seed treatment of peas, vetch, beans, lentils.

### Advantages

- Unlike similar products, inoculant Rizoform Peas used together with stabilizing/sticky agent Static allows seed inoculation to be performed in advance, 5 to 15 days before sowing
- Symbiotic nitrogen fixation provides up to 70% of nitrogen demanded
- Nitrogen is introduced into the plant as necessary, and maximum consumption is ensured during critical phases of crop development
- Biological nitrogen initiates increase of fertility and activation of soil microflora
- Yield increases by 10-30%
- Favorable effect from treatment with Rizoform Peas may be seen in the 3-5 crop rotation cycle with cereal yield growth by 10-15%



*Bradyrhizobium japonicum 10<sup>9</sup>-10<sup>10</sup> CFU/ml*

Highly effective liquid inoculant for soybean seed treatment and application to the soil during sowing.

### Advantages

- A pure culture of the most effective strain of a specialised soybean bacterium
- High bacterial titre: 10 bln per 1 ml
- Wide range of sowing time: up to 90 days after inoculation
- Long shelf life
- Providing soybean with nitrogen in the most critical phases of development
- Increased yield and protein content
- Increased soil fertility and activation of soil microflora
- Positive impact on the crops in crop rotation



New-generation multicomponent microfertilisers with a good balance of micro- and macronutrients, chosen for crop specificity.

**Ultramag Combi for cereals**

**Ultramag Combi for beet**

**Ultramag Combi for corn**

**Ultramag Combi for oilseeds**

**Ultramag Combi for legumes**

**Ultramag Combi for potato**

### Features and advantages

The products contain a special complex of adjuvants, including substances with surface active properties, which provides improved spreading and the maximum degree of working solutions on the leaves

Maximum penetration and assimilation of nutrients.

High content of essential microelements

The composition and ratio of microelements of each brand are tailored to the individual needs of a particular crop

Contain titanium (Ti), a plant growth activator, which allows a qualitative increase in the assimilation of nutrients from the leaves and soil

Effective maintenance of microelement balance during the critical periods of crop development

Stable improvement of qualitative and quantitative yield parameters

Compatible with Schelkovo Agrohim pesticides

Practically feasible liquid form

Stable working solutions, do not clog nozzles



Foliar fertilisers containing micronutrients, mesonutrients, and macronutrients to prevent nutrient deficiencies.

**Ultramag Phosphorus Active**

**Ultramag Phosphorus Super**

**Ultramag Potassium**

**Ultramag Calcium**

**Ultramag Super Sulfur-900**

**Ultramag Super Zinc-700**

**Ultramag Boron**

**Ultramag Molybdenum**

**Ultramag Chelate Fe-13**

**Ultramag Chelate Zn-15**

**Ultramag Chelate Mn-13**

**Ultramag Chelate Cu-15**

### Features

The formulations are conceived to replenish the balance and to prevent shortages in key microelements during various vegetation periods of agricultural crops.



### Foliar fertilisers ULTRAMAG COMBI (content in %wt)

Type	N total	P	K <sub>2</sub> O	CaO	SO <sub>3</sub>	MgO	Zn	B	Cu	Fe	Mn	Mo	Na <sub>2</sub> O	Ti	Co
ULTRAMAG COMBI															
for cereals	15.0				4.5	2.0	1.0		0.9	0.8	1.1	0.005		0.02	
for oilseeds	15.0				2.5	2.5	0.5	0.5	0.1	0.5	0.5	0.005		0.03	
for beet	15.0				1.8	2.0	0.5	0.5	0.2	0.2	0.65	0.005	3.0	0.02	
for potato	15.0				2.5	2.5	0.65	0.4	0.2	0.3	0.6	0.005		0.03	
for corn	15.0				4.2	2.0	1.1	0.4	0.6	0.7	0.7	0.005		0.02	
for legumes	15.0				1.0	2.0	0.3	0.5	0.2	0.3	0.4	0.003		0.02	0.002

### Foliar fertilisers ULTRAMAG (content in %wt)

Type	Amino acids	N	P	K <sub>2</sub> O	CaO	SO <sub>3</sub>	MgO	Zn	B	Cu	Fe	Mn	Mo	Na <sub>2</sub> O	Ti	Co
ULTRAMAG																
Phosphorus Active		5.2	35.0													
Phosphorus Super		6.4	35.0				4.0	2.5								
Potassium		2.6		22.0												
Calcium		10.0			17.0		0.8	0.02	0.05	0.02			0.001			
Calcium Active	3.7	2.0			9.0			1.4	1.2							
Super Sulfur-900		5.0				70.0										
Super Zinc-700		1.5						40.0								
Boron		4.7							11.0							
Molybdenum		4.5											3.0			
Chelate Fe-13											13.0					
Chelate Zn-15								15.0								
Chelate Mn-13												13.0				
Chelate Cu-15										15.0						



**ULTRAMIX; GROWTH, DEVELOPMENT brand**

Mineral fertilizer with microelements for foliar fertilization of fruit, fruit and berry, vegetable crops, and vineyards.

**Advantages**

- Effective maintenance of microelement balance during the critical periods of crop development.
- High content of essential micronutrients.
- Maximum nutrient uptake through the leaf.
- Practically feasible liquid form.



**Calcium (CaO) 10%**

Liquid mineral fertilizer for pre-sowing seed treatment and foliar application in crops.

- Improves flower and bud survival, reduces the risk of abortion (especially in soybean), including in hot and dry conditions.
- Contains an activator that improves calcium absorption by tissues with low transpiration level (flowers and buds); improves protection from stress.
- Nitrate- and chloride-free; thus, can be used repeatedly without the risk of phytotoxicity and green matter overgrowth.
- Improves the shelf life of apples.



Organomineral fertilizer based on humic acids.

**Advantages**

- The highest concentration of humic acids
- Improves plant immunity to fungus and bacterial diseases
- Intensifies germinating force and germinating power of seeds
- Mobilizes and strengthens immune system of the plant
- Stimulates growth and development of a robust root system of the plant
- Provides microelemental nutrients
- Extends fruiting season
- Increases yield



**Features**

Biostim series organomineral fertilizers are a new generation of agrochemicals, also known as biostimulants. Biostimulants activate germinating capacity, seed sprouting, vegetative growth, has a strong anti-stress action, and are powerful promoters of metabolic process in plants.

Biostim series fertilizers contain macro- (NPK), meso- (Mg, S), micro- (Fe, Mn, Zn, Cu, B, Mo) elements, and bioactive organic substances. Basic organic components are amino acids, extractives, poly-/oligosaccharides, and other active organic molecules. Chelating agents (amino acids) present in formulations determine the highest efficiency level – degree of microelement accessibility.

The **Biostim** series includes two types of products:

**General purpose fertilizers** (intended for all or most crops):

- **Biostim Start** - liquid fertilizer for seed treatment
- **Biostim Growth** - preparation for foliar dressing of cereal, industrial and fodder crops at their earlier stages of development.
- **Biostim Universal** - biostimulant – anti-stress agent.

**Special purpose fertilizers** (for specific crops):

- **Biostim Cereals**
- **Biostim Maize**
- **Biostim Oilseeds**
- **Biostim Beet**

**Amino acid biostimulants (content in %wt.)**

BIOSTIM	START	GROWTH	UNIVERSAL	CEREALS	BEEET	OILSEEDS	MAIZE
Free amino acids of plant origin, %	5,5	4,0	10,0	7,0	6,0	6,0	6,0
Polysaccharides, %	7,0						
Complex of basic mineral nutrients, %							
N	4,5	4,0	6,0	5,5	2,5	1,9	7,0
P <sub>2</sub> O <sub>5</sub>	5,0	10,0		4,0			
K <sub>2</sub> O	2,5		1,3	4,0			
MgO	1,0	2,0		2,0	1,5	3,0	2,0
SO <sub>3</sub>		1,0	5,0	2,5	2,5	8,0	6,0
Fe		0,4		0,3	0,03	0,01	0,3
Mn	0,2	0,2		0,7	1,0	1,0	0,2
Zn	0,2	0,2		0,6	0,3	0,2	0,9
Cu	0,1			0,4	0,03	0,01	0,2
B	0,1	0,1		0,2	0,3	0,7	0,3
Mo	0,01			0,02	0,02	0,04	0,02
Co				0,01		0,02	0,02

## Codes for formulations

**WG** – water dispersible granules

**SL** – soluble concentrate, soluble liquid

**SP** – water-soluble powder

**EW** – emulsion, oil in water

**CSC** – colloid solution concentrate

**SC** – suspension concentrate

**EC** – emulsifiable concentrate

**OD** – oil dispersion

**EO** – emulsion, water in oil

**OEC** – oil emulsion concentrate

**ME** – microemulsion

**SME** – suspension microemulsion

**WP** – wettable powder

**SE** – suspo-emulsion

**TB** – tablets

The catalog contains products registered in the Russian Federation. More information about products that are also registered in other countries can be found on the website <http://www.betaren.ru/>