

ICBpharma
Crop Solutions®



PLANT HEALTH SPECIALISTS

PORTFOLIO 2025



"We believe that innovations are the best way forward for modern agriculture."

Crop Solution Team



ICB stands for Innovation in Chemistry and Biology

ICB Pharma Crop Solutions is committed to plant health care and developing new products for agriculture.

ICB Pharma is a Polish research and manufacturing company, that has been operating on the market since 2000. Crop Solutions Department mission is to produce pesticide-free and low-risk solutions for agricultural and horticultural producers, based on original ideas developed by our specialists. Our products reflect deep chemical knowledge, vast agricultural experience and practical awareness of farmers' problems.

We help to control harmful pests without pesticides and provide technologies to reduce the usage of pesticides. The unique formulations of our foliar fertilisers and plant growth stimulants guarantee high bioavailability of nutrients and multidirectional action on plants, ensuring profitable crop production.

The knowledge and creativity combined with the possibilities of modern technology have resulted in highly effective products with minimal impact on the environment.

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Technologies



PRODUCTS

- Siltac EC
- Siltac STRONG
- Pyretil

3D-IPNS™

Three-Dimensional Immobilising Polymeric Net Structure Technology

Novel technology for eliminating sucking pests without pesticides

3D-IPNS™ Technology is based on silicone polymers and crosslinking agents. When applied, these compounds form a three-dimensional polymer structure on a pest's body. The netlike structure immobilises pests very quickly, resulting in a knock-down effect. The effectiveness of treatment usually reaches 85–95%. The polymeric net decomposes into simple substances under environmental conditions.



**Fast Absorbing
Silicium Technology**

PRODUCT

- Megis

FAST ABSORBING SILICIUM

Easy and deep incorporation of silicon

The Fast Absorbing Silicium Technology guarantees fast absorption and penetration of silicon into plant tissues. The technology prevents silicon from being converted into forms unavailable to plants and optimises its uptake by leaves. This helps maximise silicon utilisation providing a highly bioavailable silicon in a form of stabilised orthosilicic acid.



PRODUCTS

- Ionic Ca
- Ionic Zn
- Phenoliq

IONIC LIQUID

Fast and more effective fertilisation

Thanks to the novel technology, nutrients are delivered to plants in an ionic liquid form (liquid salts). Ionic liquids strongly absorb on a sprayed surface, creating a uniform, ordered layer (film). At ambient temperatures nutrients remain molten on a leaf surface and no crystallisation is observed. The foliar uptake by plants is faster, more effective, and safer in comparison to conventional types of formulations.



PRODUCT

- Biopolin

SLOW RELEASE™

Long-lasting effect of attracting honey bees and other pollinators

The technology prevents rapid evaporation of the attractants after application, thus prolonging their activity. The attractants are placed in microparticles and are released gradually. As a result, the attraction of insect pollinators to the target is stable and extended in time.

**PRODUCT**

- Calprone

LIPOPHILIC CALCIUM**Delivering calcium directly to fruit**

The technology enables conversion of calcium carbonate into a form with lipophilic properties, easily penetrating through fruit cuticle. Hence, perfect coverage on fruit surface and high affinity for fruit cuticle is observed. This way calcium penetrates easily through cuticle and is delivered directly to fruit.

**PRODUCT**

- Adiumix GLYPHO

MAX G EFFECT**Maximising glyphosate performance**

The technology enables the modification of chemical characteristics of glyphosate for easier and better absorption by plants.

**PRODUCTS**

- TriaZinc
- TriaBor
- TriaFer
- TriaFrost

TRIA POWER**Innovative technology for simultaneous delivery of triacontanol and nutrients**

The technology allows triacontanol to be liquefied and combined with micronutrients. As a result, a stimulating and feeding effect on plant is achieved.



PEST CONTROLLERS

Effective control of various harmful pests

Siltac EC

Pesticide-free,
physical crop pest control 10

Siltac STRONG

Physical crop pest control
with oil enhancers 11

Pyretil

Physical & chemical pest control
with pyrethrins 12

Last Bite

Slug and snail control
without metaldehyde 13

Siltac EC

Pesticide-free, physical crop pest control

A pesticide-free product containing silicone polymers for controlling sucking pests. When applied, silicone polymers form a three-dimensional structure on a pest's body. Such a netlike structure immobilises pests very quickly, resulting in a knock-down effect. Thanks to a physical mode of action, the treated pests are unable to develop resistance. Siltac EC makes it possible to eliminate pests without any toxic ingredients. Therefore, there is no risk of contamination of the treated crops with active substances.



Product based on the 3D-IPNS™ Technology
(see page 6)



Benefits

- High efficacy
- Immediate effect
- Control of a wide range of pests
- No pesticide residues
- No pest resistance
- Low impact on beneficial fauna

PROBLEMS

- Spider mites
- Rust mites
- Broad mites
- Psyllids
- Aphids
- Scale larvae
- Thrips
- Mealybugs
- Whiteflies

COMPOSITION

A mixture of silicone polymers, siloxanes and co-formulants

CROPS

- Fruit trees
- Berries
- Vegetables
- Ornamentals
- Arable crops

RECOMMENDED DOSAGE

0.05–0.15%

PACKAGING

5 L, 1 L, 30 mL, 10 mL

Custom options available on request

The product is intended for markets outside the European Union.

Siltac STRONG

Physical crop pest control with oil enhancers

A pesticide-free product containing silicone polymers and special oil enhancers, for controlling small sucking pests. Compared to Siltac EC which controls motile forms, Siltac STRONG not only effectively eliminates motile forms, but also suppresses egg development. The 3D-IPNS™ Technology physical mode of action is improved by oil enhancers. Due to the physical mode of action of the product, it does not contribute to selecting pesticide-resistant pests, even when used multiple times. Siltac STRONG does not contain any toxic ingredients, so there is no risk of pesticide residues in crops.



Product based on the 3D-IPNS™ Technology
(see page 6)



Benefits

- Suppression of eggs
- High efficacy of motile forms control
- Immediate action
- No pesticide residues
- No pest resistance
- Low impact on beneficial fauna

The product is intended for markets outside the European Union.

PROBLEMS

- Spider mites
- Rust mites
- Broad mites
- Psyllids
- Aphids
- Scale larvae
- Thrips
- Mealybugs
- Whiteflies

COMPOSITION

A mixture of silicone polymers, siloxanes and oil enhancers

CROPS

- Fruit trees
- Berries
- Vegetables
- Ornamentals
- Arable crops

RECOMMENDED DOSAGE

0.05–0.15%

PACKAGING

5 L, 1 L

Custom options available on request

Pyretil

Physical & chemical pest control with pyrethrins

A multi-purpose insecticide concentrate with pyrethrins for controlling pests. It is a dual-action product in which a chemical effect is provided by pyrethrins and a physical effect by the 3D-IPNS™ Technology. The 3D-IPNS™ Technology is based on creation of a polymer netlike structure on a pest's body, which causes immediate immobilisation of pests and cessation of feeding. Moreover, it boosts pyrethrins action by enhancing the exposure of target insects to the insecticide. Thanks to this, it is possible to reduce the dosage of the active ingredient. Pyretil is a PBO free product and the 3D-IPNS™ Technology plays a role of efficacy booster of pyrethrins.



Product based on the 3D-IPNS™ Technology
(see page 6)



Benefits

- Broad-spectrum pest control
- High efficacy
- Immediate effect
- Low pest resistance pressure
- No adjuvant needed

PROBLEMS

- Spider mites
- Rust mites
- Broad mites
- Psyllids
- Aphids
- Scale larvae
- Thrips
- Mealybugs
- Whiteflies
- and others

COMPOSITION

Natural pyrethrins and a mixture of silicone polymers, siloxanes and co-formulants

CROPS

- Fruit trees
- Berries
- Vegetables
- Ornamentals
- Arable crops

RECOMMENDED DOSAGE

0.05–0.15%

PACKAGING

5 L, 1 L

Custom options available on request

The product is intended for markets outside the European Union.

Last Bite

Slug and snail control without metaldehyde

A product designed to control slugs and snails, based on elemental iron and food grade attractants of natural origin. The formulation provides an effective alternative to toxic chemical baits such as metaldehyde and methiocarb. Last Bite is very attractive to slugs and snails. It is a "ready to use" pelletised bait. Once molluscs consume the pellets, they stop feeding immediately, crawl away and die hidden. Thanks to that, there are no visible dead slugs and snails around protected plants.

PROBLEMS

- Slugs
- Snails

COMPOSITION

Elemental iron and food grade attractants of natural origin

CROPS

- Fruit trees
- Berries
- Vegetables
- Ornamentals
- Arable crops
- Lawns & Gardens



Benefits

- Low risk metaldehyde alternative
- Control of a wide range of slug and snail species
- High palatability
- Breaks down into natural plant nutrient
- Low risk to people, pets, birds, and other fauna

The product is intended for markets outside the European Union.

RECOMMENDED DOSAGE

7 kg/ha

PACKAGING

5 kg, 1 kg

Custom options available on request



PLANT GROWTH STIMULANTS

Effective plant growth and enhanced plant resistance to stress

Megis

Reinforcement with
stabilised orthosilicic acid 16

Siltan

Titanium-based plant strengthener
& yield improver 17

Triavit

Stress reducer & yield booster
with triacontanol 18

TriaFrost

Frost damage reducer 19

Alatis

Photosynthesis enhancer
with 5-aminolevulinic acid 20

Phenoliq

Plant strengthener &
regeneration booster 21

Starset

Fruit setting enhancer 22

Megis

Reinforcement with stabilised orthosilicic acid

A plant growth stimulant containing bioavailable silicon (Si), micronutrients (Zn, Cu, Mo, B) and organic acids. Megis guarantees fast absorption and deep penetration of silicon into plant tissues. It works by improving the mechanical resistance of plants, increasing the content of phytoalexins (natural defence substances), and stimulating plant metabolic processes. Effective silicon nutrition improves plant growth and development, particularly under stress conditions. Silicon increases plant resistance to abiotic stresses, e.g. drought and salinity. Thanks to the mechanical strengthening of plant tissue it enhances plant resistance to sucking pests and reduces development of fungal and bacterial diseases.



**Fast Absorbing
Silicium Technology**

Product based on the Fast Absorbing
Silicium Technology (see page 6)



Benefits

- Enhanced crop resistance to stress, e.g. drought and high temperatures
- Reduced sunburn symptoms
- Improved fruit firmness
- Reduced fruit cracking
- Boosted dietary value of fruit and vegetables, due to increased polyphenol content
- Better yield in quality and quantity

SOLUTION FOR

- Plant strengthening
- Drought
- High temperatures
- Sunburns
- Fruit firmness
- Fruit cracking
- Apple colouration

COMPOSITION

- Silicon (Si) – 0.75% w/w
- Copper (Cu) – 1.0% w/w
- Zinc (Zn) – 0.6% w/w
- Boron (B) – 0.3% w/w
- Molybdenum (Mo) – 0.2% w/w

CROPS

- Fruit trees
- Berries
- Vegetables
- Ornamentals
- Arable crops

RECOMMENDED DOSAGE

- 0.5–0.75 L/ha
- 0.1%

PACKAGING

5 L, 1 L, 250 mL

Custom options available on request

Siltan

Titanium-based plant strengthener & yield improver

A plant growth stimulant and anti-stress agent containing easily absorbable titanium and spreading agents that ensure its efficient distribution and effective absorption by plants. The spray solution spreads evenly, ensuring perfect coverage and very good adhesion to a plant surface, resulting in a so-called "sticking effect". Siltan has a positive effect on the photosynthesis process and biomass production. The product effectively enhances plant growth and yield.

SOLUTION FOR

- Fruit firmness
- Fruit cracking
- Abiotic stresses

COMPOSITION

- Organic form of titanium (Ti) – 0.2% w/w
- Spreading agents (silicone polymers)

CROPS

- Fruit trees
- Berries
- Vegetables
- Ornamentals
- Arable crops



Benefits

- Stimulated plant growth
- Increased crop quality, e.g. fruit weight and firmness
- Increased chlorophyll content and intensified photosynthesis
- Improved absorption of nutrients and water
- Increased plant resistance to abiotic stresses

RECOMMENDED DOSAGE

0.075–0.15%

PACKAGING

5 L, 1 L

Custom options available on request

Triavit

Stress reducer & yield booster with triacontanol

A plant growth stimulant containing triacontanol (TRIA) – a potent natural plant growth promoter. Carefully selected components, including natural antioxidants, enhance the beneficial effects of triacontanol. The product reduces the negative effects of many abiotic stresses, especially temperature stress, light deficiency, and water deficiency. Moreover, Triavit stimulates the photosynthesis process and plant growth. It enhances crop quality, e.g. fruit mass and firmness, and vitamin C content in fruit. Triacontanol contained in the product improves shoot and root growth, increases the number and quality of flower buds, and reduces flower and fruit drop.



Benefits

- Better plant resistance to abiotic stresses, especially to temperature stress
- Increased chlorophyll content and intensified photosynthesis
- Improved fruit setting
- Better shoot and root growth, especially after replantation
- Increased fruit mass and yield quality

SOLUTION FOR

- Chilling and freezing
- High temperature
- Photosynthesis
- Fruit setting
- Fruit weight and firmness
- Shoot and root growth

COMPOSITION

- Triacontanol
- Antioxidants
- Co-formulants

CROPS

- Fruit trees
- Berries
- Vegetables
- Ornamentals
- Arable crops

RECOMMENDED DOSAGE

- 1 L/ha
- 0.075%

PACKAGING

5 L, 1 L

Custom options available on request



TriaFrost

Frost damage reducer

A plant growth stimulant designed to reduce damage caused by spring frost. It contains a set of anti-frost agents (cryo-protectants and antioxidants), enriched with triacontanol and zinc. The unique formulation enhances plants resistance to frost, reducing flower and fruitlet damage and their dropping. It effectively helps to inhibit ice formation in plant tissues. Moreover, it enhances natural plant metabolic processes, increasing plant resistance to unfavourable temperatures.



Formulated with the TRIA Power technology (see page 7)

SOLUTION FOR

- Spring frost

COMPOSITION

- Cryo-protectants
- Antioxidants
- Triacontanol
- Zinc
- Uptake boosters

CROPS

- Fruit trees
- Berries
- Vegetables
- Ornamentals
- Arable crops



Benefits

- Reduction of spring frost damage
- Decreased flower and fruitlet drop
- Minimised yield losses caused by spring frost

RECOMMENDED DOSAGE

4–5 L/ha

PACKAGING

5 L, 1 L

Custom options available on request

Alatis

Photosynthesis enhancer with 5-aminolevulinic acid

A plant growth stimulant containing macro- and micronutrients and photosynthesis promoters, including 5-aminolevulinic acid (chlorophyll precursor). Alatis effectively stimulates chlorophyll biosynthesis and improves photosynthesis, especially under light deficiency. Moreover, the product increases plant resistance to abiotic stresses. The use of Alatis results in better uptake of mineral nutrients, particularly under intensive fertilisation conditions. It promotes the anthocyanin biosynthesis, leading to better fruit colouration.

COMPOSITION

5-aminolevulinic acid (5-ALA) – 0.2% w/w, nitrogen (N) – 4.6% w/w, phosphorus (P₂O₅) – 10% w/w, potassium (K₂O) – 1.1% w/w, magnesium (MgO) – 2.8% w/w, manganese (Mn) – 0.1% w/w, zinc (Zn) – 0.05% w/w, boron (B) – 0.04% w/w, iron (Fe) – 0.04% w/w, copper (Cu) – 0.008% w/w, molybdenum (Mo) – 0.008% w/w



Benefits

- Improved chlorophyll content and intensified photosynthesis
- Better plant growth under light deficiency
- Extended harvest period
- Better fruit colouration
- Increased content of vitamin C in fruit

SOLUTION FOR

- Photosynthesis
- Light deficiency
- Fruit colouration

CROPS

- Fruit trees
- Berries
- Vegetables
- Ornamentals

RECOMMENDED DOSAGE

- 0.4–0.5 L/ha
- 0.04–0.05%

PACKAGING

5 L, 1 L

Custom options available on request

Phenoliq

Plant strengthener & regeneration booster

A plant growth stimulant containing nitrophenolates and micronutrients (B, Mo) in the Ionic Liquid Technology. Thanks to this technology, the level of nitrophenolates absorption and their bioavailability are exceptionally high. The product is a strong regenerating and strengthening agent. It stimulates plant regeneration processes after stress factors, e.g. frost, or phytotoxic damage resulting from fertilisers or pesticides use. Moreover, the product increases plant resistance to unfavourable growth conditions, such as drought, chilling, and salinity. It also ensures better plant growth, higher yield and crop quality, e.g. higher sugar content in sugar beets.



Formulated with the Ionic Liquid Technology
(see page 6)



Benefits

- Fast and efficient nitrophenolates absorption
- Intensified plant regenerative processes
- Better plant resistance to unfavourable growth conditions
- Reduced risk of damage caused by pesticides or fertilisers
- Reduced boron and molybdenum deficiency symptoms

SOLUTION FOR

- Plant regeneration
- Abiotic stresses
- Phytotoxic damage after pesticides or fertilisers use
- Temperature stress
- Water deficiency

COMPOSITION

Nitrophenolates in ionic liquid form: para-nitrophenol – 3 g/L, ortho-nitrophenol – 2 g/L, 2-methoxy-5-nitrophenol – 1 g/L, and micronutrients: boron (B) – 21 g/L, molybdenum (Mo) – 1 g/L

CROPS

- Fruit trees
- Berries
- Vegetables
- Ornamentals
- Arable crops

RECOMMENDED DOSAGE

0.5 L/ha

PACKAGING

5 L, 1 L

Custom options available on request

Starset

Fruit setting enhancer

A plant growth stimulant for effective fruit setting. It is recommended especially when pollination is not satisfactory due to unfavourable weather conditions or low effectiveness of insect pollinators. Starset is a unique blend of micronutrients and stimulants that directly enhance the fruit setting process. Boron and molybdenum are essential for successful pollination and fruit setting.

SOLUTION FOR

- Fruit dropping
- Fruit setting

COMPOSITION

- Boron (B)
- Molybdenum (Mo)
- Fruit set enhancers
- Efficacy boosters (triacontanol and others)

CROPS

- Tomatoes under cover
- Strawberries
- Sour cherries



Benefits

- Better fruit set
- Reduced fruitlet dropping
- Improved fruit quality
- Increased total yield and percentage of marketable fruit

RECOMMENDED DOSAGE

0.5%

PACKAGING

5 L, 1 L

Custom options available on request



FOLIAR FERTILISERS

Optimal plant nutrition and increased plant resistance to stress

Miligard

Plant strength and health 25

Sulprone

Liquid sulphur
with additional benefits 26

Protephos

Liquid nitrogen and phosphorus
with additional benefits 27

SiliCu

Chelated copper
with absorption enhancers 28

Ferrosil

Chelated iron
with absorption enhancers 29

Calprone

Calcium formulation
designed for fruit 30

Ionic Ca

Enhanced bioavailability of calcium 31

Ionic Zn

Enhanced bioavailability of zinc 32

TriaFer

Double strength:
iron and triacontanol 33

TriaBor

Double strength:
boron and triacontanol 34

TriaZinc

Double strength:
zinc and triacontanol 35

Miligard

Plant strength and health

A foliar fertiliser that effectively strengthens plants and supports their health. The unique formulation delivers phosphorus (P) and potassium (K) to a plant and forms a thin film on a leaf surface. This significantly improves and prolongs the bioavailability of nutrients. Thanks to its unique composition, Miligard helps plants to become stronger and healthier, which increases their resistance to unfavourable growing conditions. The product boosts plant resistance to various types of stress and improves crop quality and yield.

Miligard can be used both to improve crop quality and to support conventional chemical disease control. In many cases, it allows for a decrease in the use of chemical plant protection products. That reduces the risk of pesticide residues in fruits and vegetables.



Benefits

- Strengthened plants, more resistant to various stresses
- Healthy green foliage
- Effective source of phosphorus and potassium
- Increased vigour and resistance to unfavourable conditions
- Enhanced yield and quality

SOLUTION FOR

- Plant strengthening
- Potassium and phosphorus fertilisation
- Crop quality

COMPOSITION

- Phosphorus (P_2O_5) – 21% w/w
- Potassium (K_2O) – 44% w/w
- Film forming agents

The product does not contain phosphites or acid carbonates (bicarbonates).

CROPS

- Fruit trees
- Berries
- Vegetables
- Ornamentals
- Arable crops

RECOMMENDED DOSAGE

3.5–5 kg/ha

PACKAGING

10 kg, 5 kg, 1 kg

Custom options available on request

Sulprone

Liquid sulphur with additional benefits

A liquid sulphur fertiliser enriched with potassium (K), phosphorus (P), and micronutrients: molybdenum (Mo) and zinc (Zn). It combines the antifungal action of sulphur and the effective strengthening of plants thanks to the efficient fertilisation with potassium and phosphorus. Sulphur, molybdenum and zinc play a key role in improving plants' metabolism and utilisation of nitrogen. The interaction of sulphur with nutrients allows outstanding effectiveness to be achieved. Sulprone enhances plant resistance to unfavourable growth conditions, strengthens plant vigour, and improves the yield.



Benefits

- Effective sulphur, potassium, and phosphorus fertilisation
- Maximised effect of sulphur fertilisation
- Improved nitrogen metabolism
- Valuable tool for integrated crop protection

SOLUTION FOR

- Sulphur fertilisation
- Potassium and phosphorus fertilisation
- Abiotic stresses
- Crop quality
- Nitrogen utilisation

COMPOSITION

- Sulphur (S) – 25% w/w
- Phosphorus (P₂O₅) – 6% w/w
- Potassium (K₂O) – 12.5% w/w
- Zinc (Zn) – 0.08% w/w
- Molybdenum (Mo) – 0.008% w/w

CROPS

- Fruit trees
- Berries
- Vegetables
- Ornamentals
- Arable crops

RECOMMENDED DOSAGE

2.5–4 L/ha

PACKAGING

5 L, 1 L

Custom options available on request

Protephos

Liquid nitrogen and phosphorus with additional benefits

A liquid fertiliser containing nitrogen and phosphorus, for foliar and soil application. The product plays a double role in plants. In addition to effective fertilisation, Protephos strongly enhances plant resistance to unfavourable conditions, e.g. fungal diseases (downy mildews, *Phytophthora* and others). Protephos also contains a set of unique activity boosters which substantially increase the positive biological effects on plants. Thanks to that, the product works effectively even under severe conditions.

SOLUTION FOR

- Plant strengthening
- Nitrogen and phosphorus deficiency

COMPOSITION

- Nitrogen (N) – 9.0% w/w
- Phosphorus (P₂O₅) – 21.0 % w/w

CROPS

- Fruit trees
- Berries
- Vegetables
- Vineyards



Benefits

- Better plant resistance to stress, e.g. fungal diseases
- Effective source of nitrogen and phosphorus
- Improved plant condition
- Enhanced crop quality and quantity

RECOMMENDED DOSAGE

3–4 L/ha

PACKAGING

5 L, 1 L

Custom options available on request

SiliCu

Chelated copper with absorption enhancers

A foliar fertiliser containing specific combination of copper chelate and silicone polymers. The formulation provides efficient spreading and effective nutrient absorption. The spray solution spreads evenly, ensuring perfect coverage and very good adhesion to a plant surface, resulting in a so-called "sticking effect". The easily absorbable form effectively prevents copper deficiency.

SOLUTION FOR

- Copper deficiency
- Crop quality

COMPOSITION

- Copper (Cu) – 2.0% w/w
- Spreading agents (silicone polymers)

CROPS

- Fruit trees
- Berries
- Vegetables
- Ornamentals
- Arable crops



Benefits

- Maximised effectiveness of copper fertilisation
- Improved rainfastness
- Reduction of copper deficiency symptoms
- Better quality yield
- Compatible with most plant protection products

RECOMMENDED DOSAGE

0.05–0.12%

PACKAGING

5 L, 1 L

Custom options available on request

Ferrosil

Chelated iron with absorption enhancers

A foliar fertiliser containing chelated form of iron and special spreading agents (silicone polymers) that ensure its efficient distribution and effective absorption by plants. The spray solution spreads evenly, ensuring perfect coverage and very good adhesion to a plant surface, resulting in a so-called "sticking effect". The easily absorbable form effectively prevents iron deficiency.

SOLUTION FOR

- Iron deficiency
- Crop quality

COMPOSITION

- Chelated iron
- Spreading agents (silicone polymers)

CROPS

- Fruit trees
- Berries
- Vegetables
- Ornamentals
- Arable crops



Benefits

- Maximised effectiveness of iron fertilisation
- Improved rainfastness
- Reduction of iron deficiency symptoms
- Improved chlorophyll content and intensified photosynthesis
- Enhanced yield quality
- Compatible with most plant protection products

RECOMMENDED DOSAGE

0.05–0.12%

PACKAGING

5 L, 1 L

Custom options available on request

Calprone

Calcium formulation designed for fruit

A foliar fertiliser which is a highly efficient source of calcium for fruit, enriched with micronutrients: boron (B), molybdenum (Mo), and manganese (Mn). The Lipophilic Calcium Technology used in the product provides perfect coverage on fruit surface and high affinity for fruit cuticle. Calcium penetrates easily through cuticle and is delivered directly to fruit. The combination of micronutrients essential for proper plant growth and development improves plant health, especially under adverse growing conditions. Calprone effectively reduces calcium related physiological disorders and improves crop quality and fruit storage ability.



Formulated with the Lipophilic Calcium Technology (see page 7)

SOLUTION FOR

- Calcium related physiological disorders
- Fruit firmness & cracking
- Crop quality

COMPOSITION

- Total calcium (CaO) – 25% w/w
- Micronutrients: boron (B) – 0.09% w/w, manganese (Mn) – 0.02% w/w, molybdenum (Mo) – 0.002% w/w

CROPS

- Fruit trees
- Berries
- Vegetables



Benefits

- Effective calcium penetration through cuticle into fruit
- Better yield quality, e.g. firmness
- Reduced calcium deficiency disorders
- Reduced sunburn symptoms

RECOMMENDED DOSAGE

3–3.5 L/ha

PACKAGING

5 L, 1 L

Custom options available on request

Ionic Ca

Enhanced bioavailability of calcium

A calcium-nitrogen foliar fertiliser based on the Ionic Liquid Technology. Thanks to the novel technology nutrients are delivered to plants in ionic liquid form (liquid salts). No crystallisation of the product is observed. Hence, Ionic Ca delivers calcium quickly and effectively, and the risk of phytotoxicity is lower. The easy-to-use formulation helps to reduce calcium related physiological disorders, improves fruit firmness and fruit storage ability.



Formulated with the Ionic Liquid Technology
(see page 6)

SOLUTION FOR

- Calcium related physiological disorders
- Fruit firmness & cracking
- Crop quality

COMPOSITION

- Calcium (CaO) – 15.4% w/w
- Nitrogen (N) – 9% w/w

CROPS

- Fruit trees
- Berries
- Vegetables
- Ornamentals
- Arable crops



Benefits

- Fast and efficient calcium absorption
- Safer spraying compared to traditional fertilisers
- Improved fruit firmness and reduced fruit cracking
- Reduced calcium deficiency physiological disorders

RECOMMENDED DOSAGE

0.4–1%

PACKAGING

5 L, 1 L

Custom options available on request

Ionic Zn

Enhanced bioavailability of zinc

A zinc foliar fertiliser based on the Ionic Liquid Technology. The novel technology allows the fertiliser to remain in a liquid form after spraying and no crystallisation on the sprayed surface is observed. With Ionic Zn, zinc uptake is faster, more effective, and safer in comparison to conventional zinc fertiliser formulations. Foliar feeding with zinc improves plant growth, influences the hormonal and enzymatic balance and has a positive effect on plant condition and yield. Zinc fertilisation increases plant resistance to unfavourable growth conditions, e.g. drought, chilling, and freezing stress.



Formulated with the Ionic Liquid Technology
(see page 6)



Benefits

- Fast and efficient zinc absorption
- Safer spraying compared to traditional fertilisers
- Better efficiency compared to conventional zinc fertilisers
- Reduced zinc deficiency symptoms

SOLUTION FOR

- Zinc deficiency
- Abiotic stresses
- Crop quality

COMPOSITION

Zinc (Zn) – 16% w/w
in water-soluble form

CROPS

- Fruit trees
- Berries
- Vegetables
- Ornamentals
- Arable crops

RECOMMENDED DOSAGE

0.2–0.5 L/ha

PACKAGING

5 L, 1 L

Custom options available on request

TriaFer

Double strength: iron and triacontanol

An iron foliar fertiliser enriched with triacontanol – a strong plant growth stimulant and anti-stress agent. Thanks to its unique composition, the product provides powerful plant strengthening and nourishing effects. Both components effectively interact to intensify photosynthesis and essential metabolic processes, setting TriaFer apart from standard iron fertilisers. The product quickly and effectively helps plants overcome chlorosis and photosynthetic disorders caused by iron deficiency, enhances plants' resistance to stress, and improves yield quality and quantity.



Formulated with the TRIA Power technology (see page 7)

SOLUTION FOR

- Iron deficiency
- Photosynthesis
- Abiotic stresses

COMPOSITION

- Iron (Fe) – 2.5% w/w
- Triacontanol

CROPS

- Fruit trees
- Berries
- Vegetables
- Ornamentals
- Arable crops



Benefits

- Fast and efficient iron and triacontanol absorption
- Prevention of chlorosis symptoms caused by iron deficiency
- Faster plant recovery after iron deficiency
- Improved chlorophyll biosynthesis and photosynthesis
- Increased plant resistance to abiotic stresses

RECOMMENDED DOSAGE

- 2–3 L/ha
- 0.3–0.4%

PACKAGING

5 L, 1 L

Custom options available on request



TriaBor

Double strength: boron and triacontanol

A boron foliar fertiliser enriched with triacontanol which is a strong plant growth stimulant and anti-stress agent. The product supports the development of plants, especially during their flowering and fruiting periods. Boron is crucial for plant reproductive processes and proper plant growth. Triacontanol increases chlorophyll content, intensifies photosynthesis, and promotes healthy plant development. It increases plant resistance to abiotic stresses, especially to temperature stress, light stress, and water stress.



Formulated with the TRIA Power technology (see page 7)

SOLUTION FOR

- Flower formation
- Pollen production
- Abiotic stresses
- Boron deficiency

COMPOSITION

- Boron (B) – 5% w/w
- Nitrogen (N) – 12% w/w
- Triacontanol

CROPS

- Fruit trees
- Berries
- Vegetables
- Ornamentals
- Arable crops



Benefits

- Efficient boron and triacontanol absorption
- Better flower formation and pollen production
- Enhanced plant resistance to abiotic stresses
- Optimised sugar content
- Improved fruit quality and quantity
- Reduction of boron deficiency

RECOMMENDED DOSAGE

2–3 L/ha

PACKAGING

5 L, 1 L

Custom options available on request

TriaZinc

Double strength: zinc and triacontanol

A zinc foliar fertiliser enriched with triacontanol and molybdenum. The product offers double strength: zinc and triacontanol in one treatment, which results in a strong anti-stress and yield-increasing effect. Both components effectively interact, increasing plant resistance to stress, intensifying photosynthesis, plant growth, and yield. Triacontanol contained in the product is a powerful plant growth promoter that has a positive effect on many processes in plants, including photosynthesis process, shoot and root growth, flower formation, and many others.



Formulated with the TRIA Power Technology
(see page 7)



Benefits

- Efficient zinc, molybdenum, and triacontanol absorption
- Increased plant resistance to abiotic stresses, especially temperature stress
- Increased chlorophyll content and intensified photosynthesis
- Enhanced root system growth and biomass accumulation
- Better fruit set and seed formation
- Enhanced crop quality and quantity (e.g. firmness)

SOLUTION FOR

- Abiotic stresses
- Fruit set and seed formation
- Root growth and biomass accumulation
- Crop quality
- Zinc and molybdenum deficiency

COMPOSITION

- Zinc (Zn) – 11% w/w
- Molybdenum (Mo) – 0.17% w/w
- Triacontanol

CROPS

- Fruit trees
- Berries
- Vegetables
- Ornamentals
- Arable crops

RECOMMENDED DOSAGE

0.7–0.75 L/ha

PACKAGING

5 L, 1 L

Custom options available on request



SPECIALISED ADJUVANTS

Enhanced performance of herbicides, insecticides and acaricides

Adiumix FLUMIO

Flumioxazin stabiliser

& enhancer 38

Adiumix GLYPHO

Maximiser for glyphosate

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Adiumix SU

Booster for sulfonylurea-based herbicides

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Adiumix IMA

Enhancer for imidazolinone-based herbicides

41

Akaboo

Silicone based acaricide and insecticide booster

42

Starhit

Acaricide and insecticide booster with natural polymers

43



Adiumix FLUMIO

Flumioxazin stabiliser & enhancer

An adjuvant specifically formulated to enhance the performance of flumioxazin-based herbicides. Flumioxazin is relatively unstable under environmental conditions and undergoes pH-dependent hydrolysis and UV degradation. Adiumix FLUMIO prevents these processes.

The product works as:

- a pH controller – creates non-leachable microenvironment with the pH favourable to the active ingredient,
- an antioxidant agent – protects the flumioxazin molecules from oxidation,
- a surfactant – forms a homogeneous film on the top layer of the soil. Then, the surfactant helps flumioxazin to run down and under the soil clods, which protects the flumioxazin molecules against the destructive effects of UV light.



Benefits

- Stabilisation of flumioxazin herbicide performance
- Better leaf cuticle penetration
- Improved pre-emergent and post-emergent activity of flumioxazin
- Reduced fluctuation of the herbicide efficacy caused by changing weather
- Reduction of herbicide dosage

SOLUTION FOR

- Herbicide effectiveness

COMPOSITION

- Anionic surfactant
- Antioxidative agent
- pH controller
- Co-formulants: efficacy boosters

CROPS

- Arable crops
- Fruit trees
- Vineyards

RECOMMENDED DOSAGE

0.1–0.2 L/ha

PACKAGING

5 L, 1 L

Custom options available on request

Adiumix GLYPHO

Maximiser for glyphosate

An adjuvant with multidirectional action dedicated to be used with glyphosate-based herbicides and also a number of other herbicides, e.g. phenoxy acids. Glyphosate is better absorbed by plants due to its modified chemical properties. The adjuvant ensures excellent spreading of herbicide on a plant surface and boosts the penetration of glyphosate into weed leaves. Additionally, it captures and neutralises hard water ions, e.g. calcium, magnesium and iron ions, which may reduce the action of glyphosate. The adjuvant allows for a decrease in the dosage of glyphosate-based products by up to 35%, while keeping very high control rate.

MAX G Effect
TECHNOLOGY

Formulated with the MAX G Effect Technology
(see page 7)



Benefits

- Improved spreading and boosted glyphosate penetration
- Enhanced rainfastness
- Neutralised negative impact of hard water ions
- Better performance towards hard to control weeds
- Reduction of herbicide dosage
- Lower risk of glyphosate residues in food, e.g. after desiccation

SOLUTION FOR

- Herbicide effectiveness

COMPOSITION

- A blend of surfactants
- Efficacy boosters
- Hard water ions neutralisers

CROPS

- Arable crops
- Fruit trees
- Vineyards

RECOMMENDED DOSAGE

0.8–1 L/ha

PACKAGING

5 L, 1 L

Custom options available on request

Adiumix SU

Booster for sulfonylurea-based herbicides

A multifunctional adjuvant designed to enhance the performance of sulfonylurea-based herbicides and a wide range of water-soluble pesticides. It creates a unique ionic liquid structure with a SU herbicide, which significantly improves the active ingredient transfer into leaf tissues. Such a form has a great wetting ability and high affinity for cuticle lipids in leaves. This way, improved adhesion performance of pesticides and increased penetration are achieved. Such features are particularly important in case of well-developed weed cuticle, which creates a barrier for pesticide entry. This type of cuticle is especially common in older weeds or those growing during drought.

SOLUTION FOR

- Herbicide effectiveness

COMPOSITION

- A blend of cationic and non-ionic surfactants
- SU stabilisers

CROPS

- Arable crops



Benefits

- Conversion of SU active substance into an ionic liquid
- Reduced surface tension to improve leaf coverage
- Increased wetting and adhesion of herbicides
- Improved rainfastness
- Reduction of herbicide dosage

RECOMMENDED DOSAGE

50–100 mL/ha

PACKAGING

5 L, 1 L

Custom options available on request



Adiumix IMA

Enhancer for imidazolinone-based herbicides

An adjuvant designed specifically to enhance the performance of imidazolinone-based herbicides, especially imazamox. The product optimises herbicide performance, especially when the conditions are unfavourable for proper herbicide action.

Adiumix IMA:

- works as a penetrant – enhances herbicide penetration into leaf tissues,
- maximises the spreading effect, enhancing the absorption of active ingredient by weeds,
- inhibits the crystallisation process of imidazolinones on a leaf surface,
- secures high efficacy of herbicides under extreme weather conditions such as drought and high temperature.



Benefits

- Enhanced solubility of imidazolinone herbicides
- Excellent spreading
- Maximised penetration of active ingredient through cuticle waxy layer
- Improved protection against wash-out
- High efficacy of herbicide under extreme weather conditions

SOLUTION FOR

- Herbicide effectiveness

COMPOSITION

- Imidazolinone solvents
- Surfactants
- Crystallisation inhibitor

CROPS

- Arable crops

RECOMMENDED DOSAGE

0.3–0.5 L/ha

PACKAGING

5 L, 1 L

Custom options available on request

Akaboo

Silicon based acaricide and insecticide booster

An adjuvant designed to boost the performance of acaricides and insecticides. It works by enhancing the exposure of target insects to active substances. Therefore, it is possible to reduce the dosage of active substance. Moreover, the product reduces the pest resistance development.

SOLUTION FOR

- Herbivorous mites

COMPOSITION

- Silicone polymers
- Solvents

CROPS

- Fruit trees
- Berries
- Vegetables
- Ornamentals
- Arable crops



Benefits

- Boosted efficacy of acaricides and insecticides
- Reduced acaricide dosage
- Decreased pest resistance development
- High compatibility with numerous acaricides and insecticides

RECOMMENDED DOSAGE

0.2–0.3%

PACKAGING

5 L, 1 L

Custom options available on request

Starhit

Acaricide and insecticide booster with natural polymers

An adjuvant designed to enhance the performance of acaricides and insecticides. It is based on natural polymers, which create a thin, sticky layer on a treated surface. Starhit effectively attaches active ingredient to target pests, enhancing the exposure of pests to the active substances and improving rainfastness. Enhanced active substance absorption into pest bodies provides higher efficacy of treatment and enables reduction of acaricide/insecticide dosage.

SOLUTION FOR

- Spider mites
- Aphids

COMPOSITION

Natural polymers

CROPS

- Fruit trees
- Berries
- Vegetables
- Ornamentals
- Arable crops



Benefits

- Boosted efficacy of acaricides and insecticides
- Reduced active ingredient dosage
- Decreased pest resistance development
- High compatibility with numerous acaricides and insecticides

RECOMMENDED DOSAGE

0.3–0.35%

PACKAGING

5 L, 1 L

Custom options available on request



SPECIAL PURPOSE PRODUCTS

Tailored solutions for agriculture and beekeeping

Biopolin

Honey bee attractant
for better pollination

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Apimil

Honey bee calming agent
for easy beekeeping

47

Drosinal

Monitoring of Spotted Wing
Drosophila

48

Biothinner

Post-bloom thinning agent
for apples and pears

49

Biopolin

Honey bee attractant for better pollination

An innovative attractant with prolonged activity for honey bees and other crop pollinators such as bumblebees, red mason bees, etc. The product effectively attracts crop pollinators and activates their work on flowers, thus optimising the pollination process. Biopolin prevents honey bees from foraging outside of target crops. The product effectively keeps bumblebees in greenhouses and tunnels. Better pollination of crops results in yield improvement, even up to 25%, and better harvest quality, e.g. larger fruit, proper fruit shape, and better fruit storage ability.



Formulated with the Slow Release Technology
(see page 6)



Benefits

- Improved pollinator presence and their activity on flowers
- Increased number of correctly pollinated flowers
- Enhanced yield quality and quantity
- Improved fruit storage ability

SOLUTION FOR

- Insect pollination
- Crop quality
- Fruit storage ability

COMPOSITION

A mixture of several naturally occurring substances (essential oils and polysaccharides)

CROPS

- Fruit trees
- Berries
- Vegetables
- Arable crops
- Seed plantations

RECOMMENDED DOSAGE

0.75–2 L/ha

PACKAGING

5 L, 1 L

Custom options available on request

Apimil

Honey bee calming agent for easy beekeeping

A product intended to be used during beekeeping activities. When applied directly to a hive, the product immediately calms bees and reduces their natural instincts of defence and stinging, increasing the comfort of working a hive. It may be used instead of smoke. Apimil improves the success of difficult beekeeping operations. Regular use of the product naturally supports the conventional methods of reducing varroosis.

SOLUTION FOR

- Aggressive bee behaviour
- Introducing honey bee queens
- Colony combining

COMPOSITION

A mixture of essential oils and saccharides

USE

- Apiary



Benefits

- Reduced stinging tendencies of honey bees
- Improved success of introducing honey bee queens
- Increased efficiency of colony combining
- Natural support against varroosis
- Safe for bees

RECOMMENDED DOSAGE

10%

PACKAGING

250 mL

Custom options available on request

Drosinal

Monitoring of Spotted Wing Drosophila

A product designed to monitor the presence of the Spotted Wing Drosophila (SWD) at plantations of soft fruits. It is a kit consisting of a trap and a liquid attractant. The shape and colours of the trap enhance its effectiveness in attracting *Drosophila suzukii*. The mesh in entry holes ensures partial selectivity of the trap. The luring liquid is a combination of various food ingredients that are very attractive to SWD. The liquid has very low surface tension – once insects touch the liquid they drown immediately, unable to fly away.

SOLUTION FOR

- Spotted Wing Drosophila (*Drosophila suzukii*)

COMPOSITION

Various food ingredients

CROPS

- Fruit trees
- Berries



Benefits

- Effective SWD monitoring
- Partial selectivity – does not catch large insects
- Sturdy trap construction for long term use
- No pesticides and pheromones content

RECOMMENDED QUANTITY

At least 2–3 traps/ha

PACKAGING

5 L, 1 L

Trap sold separately

Custom options available on request

Biothinner

Post-bloom thinning agent for apples and pears

A novel product for post-bloom thinning in apples and pears, containing a unique combination of two active ingredients (6-BA and NAA) and efficacy boosters. It provides selective thinning, leaving mainly central fruit. Biothinner is applied after blooming when central fruit is 10–14 mm in diameter. The key benefit provided by Biothinner is a substantial increase in fruit size and weight. The increase is caused indirectly by the thinning effect and also directly by cell division stimulation by 6-BA.

SOLUTION FOR

- Post-bloom thinning in apples and pears

COMPOSITION

- 6-benzyladenine – 50 g/L
- 1-naphthaleneacetic acid – 10 g/L
- Efficacy boosters

CROPS

- Apple trees
- Pear trees



Benefits

- Effective post-bloom thinning in apples and pears
- Low risk of over-thinning
- Better fruit size and weight
- Enhanced fruit quality, especially colouration
- Prevention of alternate bearing

The product is intended for markets outside the European Union.

RECOMMENDED DOSAGE

0.8–1.2 L/ha

PACKAGING

5 L, 1 L

Custom options available on request

Targets

PEST CONTROL

Sucking pests	Siltac EC, Siltac STRONG, Pyretil
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Slug and snails	Last Bite
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Monitoring of Spotted Wing Drosophila	Drosinal
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GREATER PLANT RESISTANCE TO STRESS

Plant strengthening	Miligard, Megis, Sulprone, Phenoliq, Siltan, TriaZinc, TriaBor, Ionic Zn, Protephos
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Temperature stress	Triavit, Phenoliq, TriaBor, TriaZinc, Ionic Zn
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Spring frost	TriaFrost
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Water deficiency	Megis, Phenoliq, TriaBor, TriaZinc, Ionic Zn
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Plant regeneration	Phenoliq
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Sunburns	Megis, Calprone
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Light deficiency	Triavit, Alatis, TriaBor, TriaFer, TriaZinc, TriaFrost, Megis
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BETTER CROP POLLINATION

Insect pollination	Biopolin
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BETTER FRUIT QUALITY & QUANTITY

Flowering & fruit setting	Starset, TriaBor, Triavit
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Fruit dropping	Triavit, Starset
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Fruit firmness & cracking	Megis, Calprone, Ionic Ca, Siltan, Triavit
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Greater yield	Miligard, Megis, Siltan, Triavit, Alatis, Starset, Sulprone, SiliCu, Ferrosil, TriaFer, TriaBor, TriaZinc, Ionic Zn, Biopolin, Protephos
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Apple colouration	Alatis, Megis
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Apple and pear thinning	Biothinner
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FOLIAR FERTILISATION

Calcium deficiency	Calprone, Ionic Ca
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Boron deficiency	TriaBor
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Iron deficiency	TriaFer, Ferrosil
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Zinc deficiency	TriaZinc, Ionic Zn
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Copper deficiency	SiliCu
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Sulphur deficiency	Sulprone
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Nitrogen utilisation	Sulprone
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Nitrogen and phosphorus deficiency	Protephos
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Potassium and phosphorus deficiency	Miligard
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ADJUVANTS

Herbicide effectiveness	Adiumix GLYPHO, Adiumix FLUMIO, Adiumix SU, Adiumix IMA
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Insecticide & acaricide effectiveness	Akaboo, Starhit
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APIARY

Easy beekeeping	Apimil
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Crops

STONE AND POME FRUITS

Pest controllers	Siltac EC, Siltac STRONG, Pyretil, Last Bite
Plant growth stimulants and foliar fertilisers	Miligard, Megis, Siltan, Triavit, TriaFrost, Alatis, Phenoliq, Starset, Sulprone, Protephos, SiliCu, Ferrosil, TriaFer, TriaBor, TriaZinc, Calprone, Ionic Ca, Ionic Zn
Adjuvants	Adiumix GLYPHO, Adiumix FLUMIO, Akaboo, Starhit
Special purpose products	Biopolin, Drosinal, Biothinner

TROPICAL FRUITS

Pest controllers	Siltac EC, Siltac STRONG, Pyretil, Last Bite
Plant growth stimulants and foliar fertilisers	Miligard, Megis, Siltan, Triavit, TriaFrost, Alatis, Phenoliq, Sulprone, Protephos, SiliCu, Ferrosil, TriaFer, TriaBor, TriaZinc, Calprone, Ionic Ca, Ionic Zn
Adjuvants	Adiumix GLYPHO, Adiumix FLUMIO, Akaboo, Starhit
Special purpose products	Biopolin, Drosinal

BERRIES

Pest controllers	Siltac EC, Siltac STRONG, Pyretil, Last Bite
Plant growth stimulants and foliar fertilisers	Miligard, Megis, Siltan, Triavit, TriaFrost, Alatis, Phenoliq, Startset, Sulprone, Protephos, SiliCu, Ferrosil, TriaFer, TriaBor, TriaZinc, Calprone, Ionic Ca, Ionic Zn
Adjuvants	Adiumix GLYPHO, Akaboo, Starhit
Special purpose products	Biopolin, Drosinal

VINEYARD

Pest controllers	Siltac EC, Siltac STRONG, Pyretil, Last Bite
Plant growth stimulants and foliar fertilisers	Miligard, Megis, Siltan, Triavit, TriaFrost, Alatis, Phenoliq, Sulprone, Protephos, SiliCu, Ferrosil, TriaFer, TriaBor, TriaZinc, Calprone, Ionic Ca, Ionic Zn
Adjuvants	Adiumix GLYPHO, Adiumix FLUMIO, Akaboo, Starhit
Special purpose products	Drosinal

VEGETABLES

Pest controllers	Siltac EC, Siltac STRONG, Pyretil, Last Bite
Plant growth stimulants and foliar fertilisers	Miligard, Megis, Siltan, Triavit, TriaFrost, Alatis, Phenoliq, Starset, Sulprone, Protephos, SiliCu, Ferrosil, TriaFer, TriaBor, TriaZinc, Calprone, Ionic Ca, Ionic Zn
Adjuvants	Akaboo, Starhit
Special purpose products	Biopolin

ORNAMENTALS

Pest controllers	Siltac EC, Siltac STRONG, Pyretil, Last Bite
Plant growth stimulants and foliar fertilisers	Miligard, Megis, Siltan, Triavit, TriaFrost, Alatis, Phenoliq, Sulprone, SiliCu, Ferrosil, TriaFer, TriaBor, TriaZinc, Ionic Zn, Ionic Ca
Adjuvants	Akaboo, Starhit

ARABLE CROPS

Pest controllers	Siltac EC, Siltac STRONG, Pyretil, Last Bite
Plant growth stimulants and foliar fertilisers	Miligard, Megis, Siltan, Triavit, TriaFrost, Phenoliq, Sulprone, SiliCu, Ferrosil, TriaFer, TriaBor, TriaZinc, Ionic Zn, Ionic Ca
Adjuvants	Adiumix GLYPHO, Adiumix FLUMIO, Adiumix SU, Adiumix IMA, Akaboo, Starhit
Special purpose products	Biopolin

APIARY

Special purpose products	Apimil
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Let's talk about how
we can grow together

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