AMALGEROL®
ESSENCE

All-Around Stress Protection for Your Plants

+ Strengthens immune system & resilience against abiotic stress
+ Promotes photosynthesis, root development & nutrient uptake
+ For modern agriculture: predictable yields, high quality

+75 YEARS
DECADES OF EXPERIENCE · HECHENBICHLER · QUALITY FROM AUSTRIA

HECHENBICHLER
A BOOST FOR SOIL · PLANTS · ANIMALS

AMALGEROL® BIOSTIMULANTS

Natural Support for Plants and Soil

What are biostimulants?

Biostimulants are innovative preparations that promote the natural growth of plants, increase their resilience to stress factors such as drought or heat, and improve nutrient use efficiency. Biostimulants work differently than fertilizers or plant protection products: they activate biological processes within the plant and the soil – in a natural way. **This is precisely why they are considered a key technology in modern agriculture, which is facing increasing climatic challenges.**

How does AMALGEROL work?

AMALGEROL activates natural processes in both plants and soil. The plant-based ingredients it contains are recognized by the plant and trigger signals that **strengthen natural defense mechanisms and increase stress tolerance.** At the same time, **beneficial soil microorganisms are activated,** stimulating soil biology and indirectly improving plant health.

The result is more vigorous plants with stronger photosynthesis, an improved energy supply, and more robust root growth. An extensive root mass improves the uptake of water and nutrients while simultaneously promoting the colonization of beneficial microorganisms in the soil.

Furthermore, AMALGEROL supports biological processes that are crucial for stable plant development: **it stimulates the production of plant signaling compounds and phytohormones, strengthens cell structures, and increases natural resilience to diseases and environmental stress.**

Strengthened immunity and improved energy supply

AMALGEROL activates the plants' natural defense mechanisms and increases their tolerance to stress such as heat, UV radiation, drought, or cold. Concurrently, plant signaling compounds and phytohormone production are stimulated, while more stable cell structures further reinforce plant health. In parallel, AMALGEROL enhances the plant's photosynthetic performance, thereby improving its energy supply – for both growth and the defense against stress factors.

Root growth and soil improvement

AMALGEROL promotes the formation of robust and extensive root systems, thereby improving the uptake of water and nutrients. At the same time, it supports the activity and colonization of beneficial soil microorganisms. This promotes humus formation, increases the proportion of organic matter in the soil, and improves water-holding capacity – essential prerequisites for long-term soil fertility.

Increased and higher-quality yields

Through an improved energy supply, stable plant development, and active soil biology, AMALGEROL supports the formation of key plant constituents such as sugars, proteins, and antioxidants. In addition, it promotes the even distribution of water and nutrients throughout the plant. The results are more stable, high-quality, and quantitatively impressive yields.

Your Benefits

AMALGEROL helps plants to better cope with stress situations and maintain stable growth. Whether facing drought, heat, frost, UV radiation, or waterlogging – plants remain more resilient and productive. Even small application rates are sufficient to activate systemic defense mechanisms throughout the entire plant.

By activating the soil microbiome, the soil structure is simultaneously improved. Humus formation and water-holding capacity increase, making soils more fertile and stable over the long term.

The result is a sustainable strengthening of the entire soil-plant system: healthy crop stands, more stable yields, and a reduced need for fertilization and plant protection measures – even under challenging environmental conditions.

THE MULTI-COMPONENT BIOSTIMULANT

AMALGEROL ESSENCE: All-Around Stress Protection for Your Plants

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Why biostimulants?

Even small applications of plant-active substances trigger a positive chain reaction within the plant's immune system and the soil. This helps stabilize yields despite negative environmental influences and stress factors such as unpredictable weather events (drought, heat, late frosts, heavy rain) or side effects from crop protection activities. Biostimulants bolster plant growth and root development while nourishing the soil microbiome. This synergy counteracts soil compaction, erosion, and humus loss, as only a healthy soil enables optimal plant growth. Biostimulants play a crucial role in preparing both plants and soil for these stress situations.

AMALGEROL ESSENCE with systemic action

AMALGEROL ESSENCE is a plant-based, multi-component biostimulant that works systemically: on the plant, the soil and the entire ecosystem.

The effect on the leaf: Activates the plant's own immune response

- Antioxidants and signal peptides activate the neutralization of harmful molecules that are produced during stress situations.
- Bioactive carbohydrates help crops recover more quickly after hail, frost, or chemical stress.
- Priming, the induction of a plant's immune response, specifically prepares the plant for "worst-case scenarios", allowing it to react faster and with more resilience to stress.

The effect in the soil: The foundation for growth

- Humic-like substances activate soil life and mobilize locked-up micronutrients; minerals become more available through chelation.
- Signal molecules and postbiotics promote vigorous root growth, thereby enhancing nutrient and water uptake.
- Through the interaction of microorganisms and root exudates, the soil structure is improved, which increases the water-holding capacity and fertility of the soil.

BIO

Application

2–3 l/ha per application; do not exceed 4 l/ha. Use a sufficient amount of water to ensure thorough wetting of both soil and leaves. Crop-specific application timings can be found on the product label and our website.

AMALGEROL ESSENCE complies with Regulation (EU) 2018/848 as amended and is therefore **approved for organic farming.**

Functional Compounds

Plant-Stimulating Peptides, Bioactive Carbohydrates, Humic Acid-Like Substances, Herbal Extracts, Microbial Metabolites / Postbiotics, Organic Trace Elements, Plant Signalling Molecules

Additional information: NPK 3-0-3; 3,0 % Nitrogen (N), total, of plant origin; 3,0 % Potassium oxide (K_2O), total (water soluble); 70 % Organic substances in dry matter

Technical Specifications

pH Value: 5.5–6.5
Specific Gravity: 1.23 kg/l

Packaging Units

15 l canister; 45 x 15 l / Pallet
1,000 l IBC (Pallet tank)

CE-Marking - PFC 6(B) according to EU Regulation 2019/1009: Non-microbial plant biostimulant / Quality trait: Increased yield in all crops

AMALGEROL® IS A PRODUCT BRAND OF HECHENBICHLER GMBH, AUSTRIA.

With Nature for Nature

Discover More Resources Online!
Explore our website for in-depth materials on specific crops and topics to help you get the most out of our AMALGEROL biostimulants.
From our *Voices from the Fields* flyers - real stories from farmers in action - to our extensive trial database full of practical insights, there is plenty to discover.

Visit us online and take your crop performance to the next level!

www.amalgerol.com

Trial Database

Crop Flyers

Topic Flyers

Voices from the Fields

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