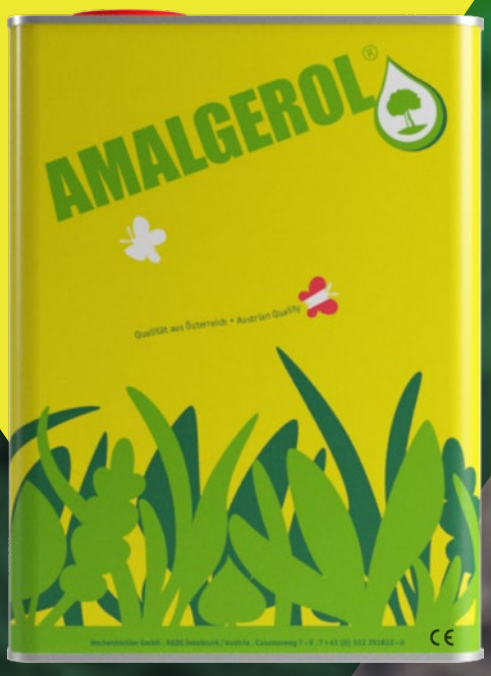
AMALGEROL®

Our Biostimulant Classic

+ Strengthens immune system & resilience against abiotic stress
+ Improves soil health, strengthens root development
+ Promotes high yield quality

DECADES OF EXPERIENCE · HECHENBICHLER · QUALITY FROM AUSTRIA ·

+75 YEARS



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 BIOSTIMULANT

AMALGEROL: Our Biostimulant Classic

- Strengthens immune system & resilience against abiotic stress
- Improves soil health, strengthens root development
- Promotes high yield quality

Why biostimulants?

Even small applications of plant-active substances trigger a positive chain reaction in the plant's immune system and in 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 to react optimally to these stress situations.

AMALGEROL with systemic action

AMALGEROL works systemically where it counts—as a biostimulant acting on both the plant AND the soil.

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

- Plant-stimulating peptides increase the "alertness" of the plant's immune response to actively counteract stress factors.
- Bioactive carbohydrates support crops in recovering more quickly after mechanical stress (hail, frost) or chemical stress.
- Priming, the induction of plant defense reactions, allows the plant to react faster and more purposefully to stress when it actually occurs.

The effect in the soil: Foundation for growth and soil health

- Humic-like substances activate soil life and mobilize locked-up micronutrients; minerals become more available through chelation.
- Herbal extracts and organic surfactants stimulate vigorous root growth with an increased number of root hairs. This optimizes nutrient and water uptake and supports the establishment of beneficial microorganisms at the root (rhizosphere).
- Hydrocarbons specifically promote microbial growth and humification processes. This sustainably improves soil structure and, consequently, the water and air storage capacity of the soil.

Application

2–5 l/ha per application. 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.

Functional Compounds

Plant stimulating peptides, Bioactive carbohydrates, Humic acid-like substances, Herbal extracts, Hydrocarbons & organic surfactants

Technical Specifications

Specific Gravity: 0.97 kg/l

Packaging Units

(16x) 1 l canister; 672 x 1 l / Pallet
(4x) 3 l canister; 280 x 3 l / Pallet
(2x) 10 l canister; 84 x 10 l / Pallet
25 l canister; 36 x 25 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

Hazard Statements
H412 Harmful to aquatic life with long lasting effects.

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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