# unifluid®

by

UNIMER
1969

## HIGH-TECH FORMULATIONS FOR ENHANCED PLANT PERFORMANCE




ALLOWED IN ORGANIC FARMING

# unifluid®

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## LIQUID SOLUTIONS DRIVING SUSTAINABILITY

For nearly 60 years, we have been standing for **reliability, quality, and proven results in agriculture**.

From this long-standing expertise comes **UNIFLUID**, our new line of eco-sustainable organic liquid fertilizers, developed to complement our historic range of solid fertilizers and meet the new challenges of modern agriculture.

UNIFLUID represents the natural evolution of our philosophy: **combining tradition and innovation, agronomic performance and environmental responsibility**, to deliver effective, flexible solutions designed for the future.

## CUTTING-EDGE SOLUTIONS TAILORED TO TODAY'S MARKET NEEDS

UNIFLUID formulations combine biologically derived raw materials, advanced formulation technology, **maximum efficiency**, and ease of use.

The result is a range of fast-absorbing liquid products, easily integrated into nutritional programs and designed to act at critical moments of the crop cycle, **maximizing plant productive potential**.

Developed through rigorous research programs and validated by field trials with measurable results, UNIFLUID enhances **soil vitality**, **nutrient efficiency**, and **crop response to environmental stress**.

## MAXIMUM EFFECTIVENESS, PERFECT SYNERGY

When used in combination with our solid fertilizers — which ensure a consistent and long-term nutrient supply — UNIFLUID products deliver immediate biostimulant and active preventive effects, targeted action for an effective support during critical phenological stages, supporting plant metabolism and enhancing their natural immune system.

The result is a complete nutritional system that enhances soil–plant interaction, stimulates rhizosphere activity, increases crop resilience, mitigate abiotic stresses intensified by climate change and delivers high yields and superior quality in a stable and sustainable way.

## TWO APPROACHES FOR A WINNING STRATEGY

UNIFLUID line is structured into **application areas designed to work** in synergy, providing comprehensive and targeted support throughout the entire crop cycle.

### NUTRITIONAL SPECIALTIES

**Nourish smarter. Boost performance.**
These are nutritional specialties designed to activate and optimize the plant's physiological processes.

### ACTIVE PERFORMANCE

**Crop revitalization to enhance resilience.**
The Active Performance line is dedicated to revitalize crops helping them better withstand physiological and environmental stresses, which are becoming increasingly frequent as a result of climate change.

## What they do:

| NUTRITIONAL SPECIALTIES | ACTIVE PERFORMANCE |
|---|---|
| Improve nutrient uptake and utilization | Activate the plant's natural defense mechanisms |
| Stimulate plant metabolism | Increase physiological and metabolic resilience |
| Support growth during periods of highest demand | Prepare crops to face adverse environmental conditions |

## Why use them:

| NUTRITIONAL SPECIALTIES | ACTIVE PERFORMANCE |
|---|---|
| For a fast and targeted nutritional response | To strengthen vegetal tissues and prevent stress conditions |
| To enhance yield, quality, and uniformity | To reduce the impact of thermal, drought and water-related stress due to climate change |
| To maximize the effectiveness of soil-applied solid fertilizers | To maintain balance, production continuity, and yield quality |
| Nutritional Specialties act as physiological, metabolic activators, helping plants fully express their productive potential. | Active Performance works ahead of time, strengthening the plant before stress occurs and turning prevention into a concrete and effective agronomic strategy. |

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NUTRITIONAL SPECIALTIES

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# uniflower®




NET WEIGHT **6 kg** (5 L)

NET WEIGHT **1.2 kg** (1 L)

## BIOPROMOTER OF FLOWERING AND FRUIT SETTING

UNIFLOWER is a **BIOSTIMULANT** based on fresh ***Ascophyllum nodosum***, L-amminoacids and plant-derived peptides, obtained through enzymatic hydrolysis and calatytic micronutrients. The specific process technology keeps all organic components in their natural form (mannitol, alginates, betaines, enzymes, natural hormones, etc.) by fully preserving their positive action on plant physiology.
It contains glycine betaine, naturally present in the algae, which helps plants cope with stress during the delicate flowering and fruit set stages.

**Agronomical targets**

- to optimize flower differentiation and fruit setting by promoting cell division and synthesis of primary metabolites.
- to reduce environmental stress such as adverse temperature, water and nutritives unbalancement.
- to promote and uniform bud breaking by reducing apical dominance on canes (e.g. vine, berry, kiwifruit, etc.).
- to increases marketable yield and fruit quality.

**Composition:** organic carbon (C) of biological origin 9.8%; mannitol 5.7 g/L; boron (B) water soluble 0,2%; molybdenum (Mo) water soluble 0,04%.

**Derived from:** plant amino acids and peptides, *Ascophyllum nodosum* extract, polysaccharides, glycine betaine, microelements.

**Application:** from pre-flowering to the fruit growth stage, with treatments at 7–10 day intervals.

150 – 300 ml/100 L (1.5 – 2 L/ha) 3 – 5 L/ha

# uniumax®




NET WEIGHT **6.1 kg** (5 L)

NET WEIGHT **1.22 kg** (1 L)

## BIOPROMOTER OF ROOT AND VEGETATIVE GROWTH

UNIUMAX is a nutritional specialty based on pure **micronized leonardite** in highly concentrated suspension. The innovative technology process makes the formulation particularly stable, remarkably increasing the bioavailability of active substances (humic, fulvic acids, humins) contained therein. Moreover, the sub-acidic pH is another distinguishing feature allowing safer and wider use in combination with other formulations, and higher agronomic efficiency through foliar or root application.

**Agronomical targets**

- to promote root growth and improve nutrient uptake.
- to overcome post-transplant crisis by favoring seedling rooting.
- to promote photosynthesis and leaf "greening" after stress event.
- to reduce environmental stress (drought, salinity, agrochemical treatments, etc.).

**Composition:** organic matter as it is 33%; organic matter on dry matter 82%; humified organic matter as percentage of organic matter on dry matter 92%; organic nitrogen (N) on dry matter 0.9%; C/N ratio 45.5.

**Derived from:** micronized leonardite, adjuvants.

**Application:** Along crop cycle, applications at 10-14 days apart.

1.5 – 2 L/ha 3 – 6 L/ha

# unisize®




NET WEIGHT **6.6 kg** (5 L)

NET WEIGHT **1.32 kg** (1 L)

## BIOPROMOTER OF FRUIT SIZE AND QUALITY

UNISIZE is a **BIOSTIMULANT** based on **plant-derived amino acids and peptides** obtained through enzymatic hydrolysis, with low molecular weight organic carboxylic acids. Organic compounds act synergistically improving tolerance to environmental stress and promoting biosynthesis of natural growth regulators active on cell division in developing fruits by supporting them to achieve optimal uniform size and higher qualitative standard.

**Agronomical targets**

- to promote optimal and uniform fruit size.
- to reduce early fruit drop enhancing tolerance to abiotic stress (heat, drought, salinity excess, water unbalancement, etc.).
- to enhance the accumulation of carbohydrates, proteins, and maturation compounds, resulting in improved fruit quality, color, dry matter content, and taste.

**Composition:** total amino acids 5.1%, free amino acids 5%, degree of hydrolysis 98%.

**Derived from:** amino acids and peptides from fabaceae plants, carboxylic acids, macronutrients.

**Application:** After petal fall / fruit setting, applications at 7-10 days apart.

2 – 3 L/ha 5 – 10 L/ha

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ACTIVE PERFORMANCE

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# uniresist®

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NET WEIGHT
**5.8 kg** (5 L)

NET WEIGHT
**1.16 kg** (1 L)

## FORTYFING ACTION

UNIRESIST is an innovative product based on **"nanoparticles" of zinc and manganese oxide complexed by lignosulfonic acid**, suitable on all agricultural crops through either foliar or root application. It strengthens vegetal tissues through different mechanisms and supports primary metabolism optimizing photosynthesis, energy production and osmotic regulation, thereby ensuring the maintenance of essential cellular functions under stress conditions.

**Agronomical targets**

- to promote the synthesis of phytoalexins, natural substances belonging to different categories (polyphenols, isoflavones, diterpenes, etc.) with anti-stress action.
- to induce lignification by depositing lignin in cell wall making it thicker and more robust.
- to fortify the cell membrane, increasing its elasticity and tolerance to adverse environmental conditions.
- to promote healthy growth and favor the greening of leaves and sprouts.

**Composition:** manganese (Mn) complexed by LS, water soluble 1%; zinc (Zn) complexed by LS, water soluble 1%; complexing agent: lignosulfonic acid (LS). pH range ensuring good stability of complexed fraction: 1-10.

**Derived from:** lignosulfonic acid, zinc, manganese.

**Application:** From fruit growth to ripening, applications at 10-14 days apart.

1 – 3 L/ha  3 – 5 L/ha

# unisilgel®

SILICA GEL




NET WEIGHT
**7.5 kg** (5 L)

## STRENGTHENER OF PLANT DEFENSES TO BIOTIC AND ABIOTIC STRESS

UNISILGEL is a **PLANT STRENGTHENER** based on **micronized calcium metasilicate** in concentrated suspension with high content of **calcium** and **silicon** highly available for plants. Thanks to their absorption and deposition in cell wall vegetal tissues get stronger by improving their mechanical resistance to biotic and abiotic stress. Furthermore, the product activates endogenous resistance by promoting the synthesis of compounds such as phytoalexins and phenols.

**Agronomical targets**

- to improve resistance of vegetal tissues to biotic and abiotic stress.
- to absorb moisture on fruits and vegetation creating unfavorable conditions to parasites growth.
- "healing" action when applied after pruning and/or adverse climatic conditions.
- to protect leaves and fruits from sunburn without leaving residues.
- to improve fruit firmness and shelf life after harvest.

**Composition:** calcium oxide (CaO) 20%, silicon oxide ($SiO_3$) 23%.

**Derived from:** micronized calcium metasilicate, adjuvants.

**Application:** From fruit growth to ripening, applications at 10-14 days apart.

150 – 300 ml/100 L  3 – 5 L/ha



Foliar Fertigation

# univital®




NET WEIGHT
**1 kg**

## BIOPROMOTER OF ROOT GROWTH AND VIGOR

UNIVITAL is a biopromoter of plant-soil system based on **a specific consortium of beneficial microorganisms** (mycorrhizae, rhizosphere bacteria, and *Trichoderma* spp: *T. Harzianum* and *T. Viride*) and organic vegetal extracts to ensure proper nourishment to microorganisms. It is very effective for improving soil features in rhizosphere favoring the biodiversity of microbiome and creating proper conditions to achieve higher marketable yield.

**Agronomical targets**

- to stimulate root development after seedling emergence, transplant or vegetative reawakening.
- to favor healthy and active roots by increasing tolerance to physiological and environmental stress throughout the crop cycle.
- to regenerate depleted or overexploited soils by creating a new beneficial microbial community in rhizosphere.
- to increase water and nutrients uptake promoting balanced and healthy vegetative growth.

**Composition:** mycorrhizae 1%, rhizosphere bacteria $10^6$ CFU/g, *Trichoderma* spp. $3x10^7$ CFU/g.

**Derived from:** consortium of mycorrhizae, *Trichoderma* spp. and rhizosphere bacteria, vegetal extract.

**Application:** After transplanting or vegetative reawakening, applications at 10-14 days apart.

1.5 – 3 kg/ha

# univigor®




NET WEIGHT
**5 kg**

## BIOPROMOTER OF PLANT VIGOR

UNIVIGOR is a **BIOSTIMULANT** based on **hydrolyzed vegetal extracts from alfalfa** rich in L-amino acids and peptides, brown seaweed rich in polysaccharides, betaines, enzymes, and biopolymers with very low molecular weight. It supplies available energy and organic carbon that the plant can exploit for vegetative and reproductive growth, furthermore it is active on response to environmental stress and strengthening plant's natural immune system.

**Agronomical targets**

- to promote the synthesis of secondary metabolites (e.g. antimicrobial proteins, cell-wall-degrading enzymes) which are active on endogenous resistance to stress.
- to favor greener and stronger plants' growth by enhancing photosynthesis and primary metabolism.
- to improve tolerance to environmental stress such as adverse temperatures, drought, water / nutrients imbalance.
- to enhance the absorption and efficacy of plant protection products.

**Composition:** organic carbon (C) of biological origin 2.0%; potassium oxide ($K_2O$) water soluble 1.5%; betaine 0.2%.

**Derived from:** vegetal amino acids and peptides, brown seaweeds, mannitol, alginates, betaines, enzymes.

**Application:** Along the crop cycle, applications at 7-10 days apart.

1 – 3 kg/ha



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# IN THE SOIL OF RESEARCH, THE ROOTS OF A FERTILE FUTURE

Read more

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QUALITY SYSTEM CERTIFICATION DNV ISO 9001
ENVIRONMENTAL SYSTEM CERTIFICATION DNV ISO 14001
PRODUCT TRACEBILITY SYSTEM DNV ISO 22005
CERTIFIED PRODUCT DNV STP 66 TECHNICAL DOCUMENT ASSOFERTILIZZANTI