

RICH GROW ORGOPHOSE

Product type

- Liquid fertilizer containing nitrogen and phosphorus in an acidic formulation that enhances root uptake across soil types and improves phosphorus availability by preventing fixation in the soil.

Composition

Nitrogen (N): 12% w/v

Phosphorus (H_3PO_4): 40% w/v

Density: $1.35 \pm 0.05 \text{ g/cm}^3$

pH: 3.5 ± 0.5

Description and Benefits

- Special acidic compound of phosphorus and nitrogen designed for rapid plant uptake.
- Stimulates root growth, root hairs, stem thickening, flowering and fruit set.
- Effective in alkaline soils: increases phosphorus uptake and prevents its precipitation; reduces salinity stress on plants.
- Promotes vigorous vegetative growth.

Application rates

- Soil injection (fertigation): 3–5 kg/acre



Manufacturer:
Jordanian Technical Company for Chemical Industries
Country of origin: Egypt



Exclusive agent in Egypt:
Agro Group Company
tel.: 0122734166 - +02 37146930

RICH GROW BETA B

Product type

- Concentrated boron chelate (chelated with ethanolamine) enhanced with copper.

Composition

Boron (B): 7% w/v

Copper (Cu): 2% w/v

Sulfur (S): 1.06% w/v

Density: 1.25 g/cm³

pH: 8 ± 0.5

Description and Benefits

- Corrects boron and copper deficiencies.
- Improves translocation of carbohydrates and sugars from leaves to storage organs, increasing sugar concentration in fruits and tubers.
- Copper enhances plant immune efficiency against many fungal diseases, especially soil-borne pathogens.
- Improves calcium mobility and balance with potassium.
- Reduces hollow and brown heart disorders in sugar beet and potato.

Application rates

- Foliar spray: 500 mL/acre
- Soil injection: 1 L/acre



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RICH GROW BOR 15%

Product type

- Liquid boron chelate (chelated with monoethanolamine) for foliar and root uptake.

Composition

Boron (B): 15% chelated with monoethanolamine

Density: 1.3 g/cm³

pH: 8.5 ± 0.5

Description and Benefits

- Supplies boron to the plant.
- Boron is linked to plant hormones that regulate cell division and meristem growth; it activates many enzymes.
- Increases cell wall porosity and facilitates carbohydrate and sugar translocation.
- Accelerates calcium mobility and helps regulate Ca:K balance.
- Prevents and treats physiological disorders caused by boron deficiency (e.g., hollow heart, brown heart in sugar beet and potato).
- Specialized fertilizer for remobilizing sugars and proteins from leaves to storage organs.
- Promotes pollen development and improves pollination, fertilization and fruit set.
- Prevents carbohydrate metabolism disruption that leads to starch accumulation and impaired translocation.
- Supports nitrate reduction and mitigates adverse effects of excess nitrogen.

Application rates

- Season total: 2–2.5 L/acre
- Soil injection: 0.5–1 L/acre
- Foliar spray: 50–100 mL/100 L water; or 250–300 mL/acre per application; adjust by physiological stage



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RICH GROW SILICATE

Product type

- Potassium silicate formulation that strengthens plant mechanical defenses, reduces physiological and environmental stress, and reinforces cell walls to deter piercing and sucking insects.

Composition

Potassium (K_2O) from potassium silicate: 12%

Silicon (SiO_2) from potassium silicate: 25%

Density: 1.3 g/cm³

pH: 8

Description and Benefits

- Regulates cell wall thickness and increases fruit size.
- Enhances resistance to physiological disorders (e.g., fruit cracking, rots).
- Protects foliage from environmental stress (fog, frost, heat).

Application rates

- Foliar spray: 25–400 mL/100 L water; 1–1.5 L/acre



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RICH GROW GROWTH

Product type

- Suspended fertilizer with a high proportion of phosphorus and potassium in an acidic formulation to maximize uptake and efficiency.

Composition

Potassium (K_2O): 30% w/v
Phosphorus (P_2O_5): 50% w/v
Sulfur (S): 1.06% w/v
pH: 5 ± 0.5
Density: 1.65 g/cm^3

Description and Benefits

- Supplies phosphorus and potassium in effective ratios and high efficiency.
- Suitable for use at all growth stages.
- Stimulates root growth and nutrient uptake.
- Increases sugar content and accelerates maturity.
- Enhances tolerance to adverse environmental conditions.
- Promotes flowering and fruit set, improving yield, size and quality.
- Can be applied as foliar spray or via fertigation.

Application rates

- Soil injection: 3–5 kg/acre
- Foliar spray: 1–2 kg/acre
- Apply once according to crop age and physiological stage.



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RICH GROW CAL MAG BOR

Product type

- Liquid formulation of chelated elements on organic acids that strengthens vegetative growth, mitigates harmful effects of sodium and chloride ions in soil, and enhances root vigor and nutrient uptake.

Composition

Nitrogen (N): 10% w/v

Magnesium (MgO): 2% w/v

Calcium (CaO): 12.5% w/v

Boron (B): 0.02% w/v

Density: $1.40 \pm 0.05 \text{ g/cm}^3$

pH: 5.5 ± 0.5

Description and Benefits

- Dual-action formula addressing soil salinity and providing a favorable root environment.
- Supplies N, Ca, Mg and B to prevent deficiency symptoms; N and Mg support chlorophyll formation and photosynthesis.
- Easy to apply via soil or foliar spray.
- Helps reduce and treat hollow heart disorder.

Application rates

- Soil injection: 4–6 L/acre per application (adjust by salinity severity and irrigation method; repeat during season)
- Foliar spray: 300–400 mL/100 L water or 0.7–1 L/acre



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RICH GROW SULPHO

Product type

- Emulsifiable sulfur concentrate with high sulfur content and 6% water-soluble sulfur for improved penetration and partial systemic activity; acts as a fungicide and insect repellent.

Composition

Nitrogen (N): 12% w/v
Total sulfur (S): 17.75%
Magnesium (MgO): 4% w/v
Copper (Cu): 1.5% w/v
Density: $1.30 \pm 0.05 \text{ g/cm}^3$
pH: 5.5 ± 0.5

Description and Benefits

- Supplies sulfur and prevents deficiency symptoms; sulfur is part of essential amino acids (cysteine, cystine, methionine).
- Sulfur is an enzymatic cofactor in respiration.
- Acts as a protective fungicide and insect repellent.

Application rates

- Soil injection: 2 L/acre per application, repeat 3–4 times.
- Foliar spray: 250–350 mL/100 L water.



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RICH GROW FEED

Product type

- Balanced suspended fertilizer containing N-P-K (23-23-23) for supplying major nutrients and correcting deficiencies at different physiological stages.

Composition

Nitrogen (N): 23% w/v
Phosphorus (P_2O_5): 23% w/v
Potassium (K_2O): 23% w/v
Sulfur (S): 3.34% w/v
Density: 1.6 g/cm³
pH: 5 ± 0.5

Description and Benefits

- Acidic formulation to enhance nutrient uptake across soil types.
- Promotes balanced vegetative and root growth.
- Rapid uptake and visible results; effective corrective solution, especially in sandy soils.

Application rates

- Soil injection: 5–7 kg/acre per application
- Foliar spray: 300–400 g/100 L water
- General use: 1–2 kg/acre



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RICH GROW FINISHER

Product type

- High-potassium suspended fertilizer with nitrogen and phosphorus to improve fruit quality, size and sugar content.

Composition

Nitrogen (N): 10% w/v
Phosphorus (P₂O₅): 6% w/v
Potassium (K₂O): 60% w/v
Magnesium (MgO): 1% w/v
Density: 1.8 ± 0.5 g/cm³
pH: 7.5 ± 0.5

Description and Benefits

- Potassium facilitates translocation of sugars, carbohydrates and proteins from leaves to storage organs (fruits, grains, tubers).
- Stimulates root water uptake and regulates transpiration via stomatal control.
- Helps plants tolerate salinity, drought and low temperatures by improving osmotic regulation.
- Physical formulation reduces nutrient loss and is especially effective in sandy soils.

Application rates

- Soil injection: 3–7 kg/acre per application
- Foliar spray: 1.5–2 kg/acre or 200–300 g/100 L water



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RICH GROW CUP 6%

Product type

- Organic copper formulation that supplies plants with copper to prevent deficiency symptoms and also acts as a protective agent against certain foliar and root fungal diseases.

Composition

Copper (Cu): 6% w/v
Gluconic acid: 36% w/v
Density: $1.1 \pm 0.05 \text{ g/cm}^3$
pH: 6 ± 0.5

Description and Benefits

- Systemic copper that enhances the plant's immune response against many fungal diseases.
- Copper is essential for chlorophyll formation.
- Protects roots from soil-borne fungi, supporting uniform plant growth.
- Contributes to protein and embryo formation.
- Suitable for foliar spraying or soil injection with irrigation water.

Application rates

- General: 2–4 L/acre per application
- Soil injection: 1–1.5 L/acre
- Foliar spray: 1–1.5 L/acre



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GROW NETRO CAL

Product type

- Liquid calcium nitrate supplying calcium and nitrogen to the plant and soil. Prevents calcium deficiency symptoms and stimulates vegetative growth by activating meristematic tissues at growing tips. Calcium is essential for cell elongation and cell division.

Composition

Nitrogen (N): 8.6% w/v
Calcium (CaO): 30% w/v
Density: 1.4 g/cm³
pH: 6.5 ± 0.5

Description and Benefits

- Calcium plays a major role in cell-wall formation, especially in forming the middle lamella where calcium pectates bind cellulose chains, increasing tissue strength.
- Calcium deficiency causes poor growth, tip necrosis, hollow heart, blossom-end rot and soft root tips.
- Delays senescence and extends physiological life through interactions with cytokinins, auxins and gibberellins.
- Helps mitigate harmful effects of excess sodium in soil (salinity amelioration).
- In the absence of calcium, cell division activity declines or may stop.
- Increases fruit firmness and storage life.

Application rates

- Soil injection: 5–7 kg/acre per application



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Country of origin: Egypt



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AGK MICRO MIX Q

Product type

- EDTA-chelated micronutrient mix.
- A concentrated blend of micronutrients chelated with EDTA to prevent and correct micronutrient deficiencies. The EDTA chelation ensures stability and effective availability across a wide soil pH range (pH 4–9).

Composition

- Magnesium (Mg): 3% w/v
- Zinc (Zn): 2.5% w/v
- Iron (Fe): 4% w/v
- Manganese (Mn): 4% w/v
- Copper (Cu): 1.5% w/v
- Boron (B): 0.85% w/v
- Sulfur (S): 2.2% w/v
- Chelating agent (EDTA): 60% w/v

Description and Benefits

- A high-purity chelated formula specifically developed for rapid foliar absorption and maximum bioavailability.
- Prevents and treats essential micronutrient deficiencies in all crop types (Vegetables, Fruits, and Field Crops).
- 100% water-soluble; suitable for both foliar spray and soil fertigation.
- Boosts photosynthetic efficiency, leading to higher yields and superior crop quality
- Ensures fast-acting nutrient delivery throughout the growing season.

Application rates

- Foliar spray: 150–250 g/100 L water
- Per acre: 200–300 g/acre



RICH GROW HUMIC

Product type

- Concentrated humic and fulvic acid formulation with essential nutrients that improves soil water retention, nutrient holding capacity and reduces nutrient leaching.

Composition

Potassium (K): 5% w/v Its source is potassium humate.

Density: 1.3 g/cm³

pH: 8

Description and Benefits

- Chelates certain soil elements (notably calcium).
- Improves soil physical properties and increases water-holding capacity, reducing nutrient loss.
- Creates a favorable root environment, increasing root strength and activity.
- Enhances nutrient uptake and seed germination.
- Improves salinity tolerance and plant stress resistance.

Application rates

- Soil injection: 5–7 L/acre per application



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PROCURE CU

Product type

- Copper-phosphite formulation (copper as copper phosphite) with rapid uptake and activity; supplies copper and phosphorus in a plant-available phosphite form.

Composition

Nitrogen (N): 12.5% w/v

Phosphorus (as P_2O_5): 26.91 % w/v

Copper (Cu): 5% w/v

Density: 1.25 g/cm³

pH: 7.5 ± 0.5

Description and Benefits

- Supplies copper and phosphorus for nutrition and helps prevent/treat certain fungal diseases across many crops.
- Copper is a component of redox enzymes, contributes to chlorophyll synthesis and vitamin A formation in plants.
- Influences carbohydrate and protein metabolism and enhances plant immune responses against fungal pathogens.
- Effective in treating many soil- and foliar-related fungal diseases (including root rots).
- Suitable for soil application via irrigation and foliar spraying.

Application rates

- Soil injection: 2–3 L/acre
- Foliar spray: 200–300 mL/100 L water or 1–1.5 L/acre



PROCURE BASIC

Product type

- Highly effective liquid potassium phosphite suitable for foliar spray and soil application with irrigation; contains fast-moving phosphite forms for rapid plant uptake.

Composition

Phosphorus (as P_2O_5): 40% w/v

Potassium (K): 27% w/v

Density: 1.35 g/cm³

pH: 3.5 ± 0.5

Description and Benefits

- Improves root uptake and stimulates both vegetative and root growth; increases fruit size and yield.
- Enhances flowering and fruit set, raises sugar content and accelerates maturity.
- Increases plant resistance to diseases and boosts immune response against pathogens (e.g., Phytophthora, downy mildew, Oomycetes).
- Helps plants tolerate adverse environmental conditions.
- Potassium stimulates phytoalexin synthesis, improving plant defense against fungal pathogens.

Application rates

- Soil injection: 1–2 L/acre
- Foliar spray: 250–400 mL/100 L water or 1–1.5 L/acre



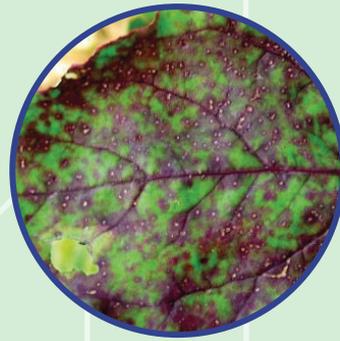
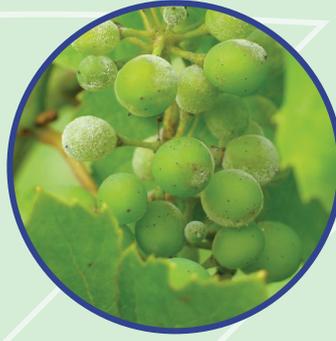
DIFAZOL (Fungicide)

Active ingredient / formulation

- Contains **25% difenoconazole** (emulsifiable concentrate) used to control a wide range of fungal diseases.

Target diseases

- Powdery mildew
- Early blight
- Leaf spot diseases
- Rusts
- Cercospora leaf spot
- Stem canker / gummosis



Mode of action

- Triazole fungicide with systemic and contact activity; inhibits fungal mycelial growth and prevents new infections; provides both protective and curative control.

Dosage and Pre-Harvest Interval (PHI)

- Sugar beet: Cercospora, powdery mildew, rust – 50 mL/100 L (200 mL/acre); **PHI 14 days**
- Potato: Early blight – 50 mL/100 L (200 mL/acre); **PHI 14 days**
- Cucurbits: Stem canker (gummosis) – 40 mL/100 L; **PHI 7 days**
- Beans, peas: Powdery mildew, rust, leaf spots – 40 mL/100 L; **PHI 20 days**
- Wheat: Rust, leaf spots – 50 mL/100 L; **PHI 30 days**
- Groundnut: Cercospora leaf spot – 50 mL/100 L (200 mL/acre); **PHI 28 days**
- Citrus: Alternaria (navel rot) – 40 mL/100 L; **PHI 15 days**
- Mango: Powdery mildew, blossom blight – 50 mL/100 L; **PHI 28 days**
- Onion, garlic: Purple blotch – 50 mL/100 L (200 mL/acre); **PHI 14 days**



NEMACLEAN

Product type

- Environmentally friendly nematicide / biological control product

- (N): 10%
- Amino acids: 13.2%
- pH: 5.8 + 0.5 - Density: 1.35 g/cm³

Active components & mode of action

- Saponins: Plant-derived compounds that disrupt the nematode life cycle at egg and infective stages and degrade nematode cuticles.
- Trichosan extracts: Marine-derived extracts that break down into amino acids and auxin-like substances, stimulating root growth and helping plants recover from nematode stress; they also enhance beneficial soil microorganisms that secrete enzymes to destroy eggs and degrade nematode cuticles.

Description and Benefits

- A bio-friendly formulation safe for humans and beneficial organisms that acts directly and indirectly against plant-parasitic nematodes. Contains plant extracts and organic acids from multiple chemical groups (saponins, sterols, phenolics), providing diverse biological and chemical modes of action.
- Reduces nematode populations in soil and strengthens root system development.
- Improves plant water and nutrient uptake.
- Environmentally safe with zero pre-harvest interval.

Application rates

- Potato, tomato, carrot: Preventive 5 L; Moderate 8–10 L; Severe 14–16 L
- Zucchini, pepper, eggplant: Preventive 3 L; Moderate 6–8 L; Severe 10–12 L
- Onion, sugar beet: Preventive 4–5 L; Moderate 6–8 L; Severe 10–12 L
- Peanut, pea: Preventive 4–5 L; Moderate 8–10 L; Severe 12–14 L
- Fruit trees: Preventive 3 L; Moderate 5–7 L; Severe 8–10 L

Frequency

- Preventive: single application.
- Moderate to severe infestations: apply 2–3 times as needed.



Manufacturer:
TRICHODEX Company
Country of origin: Spain



Exclusive agent in Egypt:
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