

Recommendation of use

- **EPSO Combitor®** is the cereal specialist within the **EPSO** range.
- **EPSO Combitor®** is with its nutrient composition of 13% MgO, 34% SO₃, 4% Mn and 1% Zn ideally suited to supply the demand of cereals.
- **EPSO Combitor®** is ideal with regard to its nutrient composition: 25 kg/ha **EPSO Combitor** supplies, via the foliage, 3.25 kg MgO, 8.5 kg SO₃, 1.0 kg Mn and 250 g Zn.
- If applied in one or two applications, **EPSO Combitor®** meets the crops' peak magnesium and sulphur demand as well as providing the full maintenance dressing with manganese and zinc.
- **EPSO Combitor®** dissolves residue-free without blocking nozzles and is highly plant compatible.
- Compatible for tank mixing with most fungicides and fertilisers (always follow manufacturer's recommendations and test a small quantity in a suitable container prior to application).
- After testing for compatibility a combination in the following sequence is recommended: Fill sprayer tank to one third of volume, add **EPSO Combitor®**, then crop protection product and fill to the top.
- **EPSO Combitor®** mixes well with UAN if it is first completely dissolved in water.

- **EPSO Combitor®** provides a cost effective way of ensuring adequate Mg, S, Mn and Zn when tank mixed with routine sprays with no additional application costs.
- **EPSO Combitor®** serves as a foliar fertiliser to effectively prevent or treat deficiencies. All nutrients are fully water soluble and are immediately absorbed through the leaves
- **EPSO Combitor®** is supplied in handy 25 kg bags, easy to store and convenient to handle.
- **EPSO Combitor®** is generally applied as a 5% solution (approx. 10 kg product in 200 l water). This concentration can be applied in combination with crop protection products.
- **EPSO Combitor®** should be applied in spring with two applications of 10 - 15 kg/ha (20 kg total) together with fungicide treatments. In the case of severe deficiency or in risk prone situations, winter cereals should receive an additional application in autumn of 10 - 15 kg/ha, from three leaf stage until mid-tillering.
- **EPSO Combitor®** should be applied in case of severe deficiency or visible symptoms, at rates of 50 kg/ha, split into two to four applications.

For information on how you can benefit from using **EPSO Combitor®** in your fertiliser program, call the Technical Helpline on **FREephone 0800 0322480**.

EPSO Combitor®

EPSO
Combitor®

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Applying **EPSO Combitor®** to wheat



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EPSO Combitor®
13% MgO · 34% SO₃ · 4% Mn · 1% Zn



EPSO Combitop® – Ideal for foliar application in cereals

Magnesium + Sulphur + Manganese + Zinc

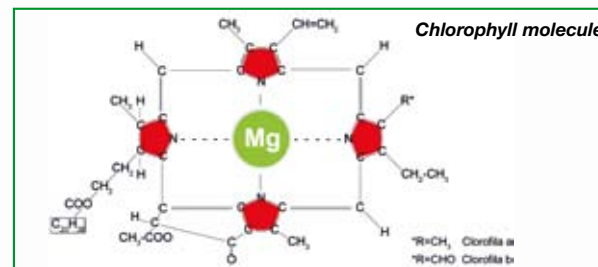
Magnesium Sulphate with manganese and zinc for foliar fertilisation 13+34

13% MgO water-soluble magnesium oxide (= 8% Mg)
34% SO₃ water-soluble sulphur trioxide (= 13% S)
4% Mn water-soluble manganese
1% Zn water-soluble zinc

- **EPSO Combitop®** is a quick acting foliar fertiliser based on epsom salts containing the nutrients magnesium and sulphur as well as manganese and zinc, with all four nutrients in the fully water-soluble form.
- **EPSO Combitop®** has been formulated to meet the micronutrient demand of highly productive cereals in an ideal combination with magnesium and sulphur.
- **EPSO Combitop®** corrects deficiencies of magnesium, sulphur, manganese and zinc quickly and reliably.
- **EPSO Combitop®** is particularly suitable for use as a preventative application to avoid deficiency situations before they occur.
- **EPSO Combitop®** is fully effective regardless of the soil pH due to direct foliar absorption.
- **EPSO Combitop®** allows a quick, targeted and accurate application of manganese and zinc in combination with magnesium and sulphur.
- **EPSO Combitop®** has been developed specifically for high yielding cereal crops which demand additional nutrients to achieve potential.
- **EPSO Combitop®** is suitable according to the EU directive 2092/91 and 2381/94 for use in organic farming systems.

Magnesium:

- is essential for the yield and quality formation of plants.
- plays a primary role in the efficiency of photosynthesis as the central atom in chlorophyll (pigment needed for leaf greening).
- is necessary in energy, protein and carbohydrate metabolism for the incorporation and storage of assimilates.
- Magnesium deficiency frequently occurs during intensive growth phases, in periods of stress (prolonged cold/drought) and in soils containing insufficient levels of magnesium. Deficiencies are also common on light land, compacted soils and on calcareous soil types (chalks) where Mg/Ca antagonism can occur.



Sulphur:

- is a vital nutrient required for protein synthesis in plants and is therefore a key nutrient in improving the N use efficiency by incorporating mineral N in organic plant components.
- is preferably absorbed by plants in the form of sulphate (SO₄²⁻) via the roots as well as the leaves.
- increasingly gains in importance in plant nutrition as the atmospheric sulphur deposition has clearly been reduced due to air pollution control.

Manganese:

- activates various enzymes and is therefore in many ways essential for the plants' metabolism.
- is necessary for chlorophyll and photosynthesis as well as for nitrate reduction and amino acid formation.
- improves the disease resistance of plants.
- becomes less available with increasing soil pH. Manganese availability is greatly reduced in dry conditions and in light soils with little consolidation.

Zinc:

- is an indispensable nutrient for protein formation, which is drastically inhibited if the nutrient is insufficiently supplied.
- is important for the stability of the ribosomes, required for the formation of polypeptides from free amino acids.
- is needed for the extension growth of plant cells.
- deficiency is manifested in stunted growth (dwarf plants), small leaves and leaf rosette formation. Wheat shows typical yellow-white spots which gradually change into stripes running along the whole leaf.



Zinc deficiency in maize



Sulphur deficiency in barley