

A close-up photograph of a large quantity of yellow, oval-shaped seeds, likely mustard seeds, filling the left side of the upper half of the page. A diagonal white line runs across the seeds from the bottom left towards the top right.

# Active 30-30™

30% Zinc + 30% Manganese  
Germination Booster

High-analysis Zinc and Manganese suspension with germination booster to ensure plants get a healthy and vigorous start in life.

## PRODUCT CHARACTERISTICS

Specific gravity: 1.76 g/cm<sup>3</sup>

ANALYSIS	w/v%	w/w%
Zinc (Zn) as oxide	30.0	17.0
Manganese (Mn) as carbonate	30.0	17.0
Germination Booster (Ecklonia maxima)	10.0	6.0

## BENEFITS OF ACTIVE 30-30™

- Accelerates seedling development because nutrients and plant hormones are available from germination
- Promotes healthy and vigorous root systems to access essential nutrients from the soil
- Extremely safe for application to all seeds due to nutrient forms and source
- Compatible with many other chemical seed treatments
- One product suitable for seed dressing, foliar or soil application, no need for separate products
- Has micro-fine particles ensuring even coverage and effective plant uptake
- Can be applied with a wide range of other agricultural chemicals reducing the number of spray applications needed
- Is pre-mixed in carefully controlled ratios so the crop receives the essential nutrients specific to its growth stage

## GERMINATION BOOSTER

Apart from the supply of essential Zinc and Manganese, Active 30-30™ contains a unique germination booster (Ecklonia maxima) which supplies plant hormones (auxins and cytokinins) in a ratio which assists in the stimulation of seed germination and root growth. This booster will work either as a seed or foliar treatment.

## DEFICIENCY-MANGANESE

- Leaf speckling
- Susceptibility to root diseases



Manganese deficiency in Barley



Zinc deficiency in Wheat

## DEFICIENCY-ZINC

Zinc has poor mobility in plants which generally leads to deficiency problems such as:

- Chlorosis
- Stunting
- Dieback
- Rosetting
- Small irregular leaves
- Reduced yield

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## THE ROLE OF MANGANESE

Manganese is essential as an enzyme activator which helps with nitrate assimilation. It is also primarily involved in photosynthesis and chlorophyll production.

## THE ROLE OF ZINC

Zinc forms an enzyme which produces carbon dioxide and maintains CO<sub>2</sub> levels for photosynthesis. Zinc plays an important role in the production of auxins.

## DIRECTIONS FOR USE

Agitate contents well before dilution. Suitable for applications by:

Seed Dressing Unit



Foliar



Aerial

## SEED DRESSING

CROP	RATE / ton of seed	MIN. DILUTION	COMMENTS
Barley, Oats, Triticale, Wheat	5-8L	Mix sufficient water to ensure adequate coating of seed	If using the lower rate follow-up tissue tests may be required to determine the need for foliar application after emergence.
Cotton, Canola, Grain, Legumes	6-10L		If these products are applied without dilution uneven coverage will usually occur. Uneven or lumpy coatings can cause dusting when the treated grain goes into subsequent augur operations. Apply between 1 and 3 L water / ton of seed depending on seed moisture percentage and ambient temperature.
Maize, Rice, Sorghum	5-8L		Germinator 30-30™ is compatible with inoculants.

## FOLIAR APPLICATION

CROP	RATE/ ha	MINIMUM DILUTION	COMMENTS
Barley, canola, cotton, legumes, maize, oats, rice, sorghum, triticale & wheat	1-2L	1 : 30	Apply at 3 – 4 leaf stage

**MINIMUM DILUTION:** A dilution of 1 : 100 means 1 part product: 100 parts water. In hot weather use higher dilution rates.

### Important Note:

The suggested rates of application are designed for typical South African conditions and such should be used as a guide only. Each farmer's climatic conditions, water quality, soil types, application processes and practices may differ and therefor necessitate corrections to ensure optimum results. Good agricultural practice requires that application be avoided under extreme weather conditions such as temperatures over 28°C, high humidity, frost, rain etc. It is recommended that when applying to a crop or area for the first time, or in combination with other chemicals, a small test area should be sprayed and observed prior to the total spray. Where possible, it is recommended that regular leaf (sap) tests are conducted to determine actual plant nutrient availability during each growth cycle. Soil tests at least once per year are essential.