



MAS-Power Active Bud[®] 7-33-7+4.2Mgo+1%B

A super concentrated blend of soluble nutrients and support compounds designed to provide optimal support during bud growth, flowering and early fruit development.

MAS-Power Active Bud is a powerful blend of the highest quality nutrients, plant extracts and amino acids made for foliar application to add optimal support from bud break to post flowering.

The high phosphate analysis is supported by a high level of magnesium to ensure optimal mobility once in the plant

The micro element package has been created to provide the best balance for bud support up to and during the flowering and fruit setting process.

Active Bud comes with a unique supportive bio package to ensure optimal penetration and assimilation of the nutrients plus the ability to create supportive compounds which will maximise bud performance.

CROPS

-  Tree Fruit
-  Cane Fruit
-  Berry Fruit
-  Stone Fruit
-  Vine crops
-  Bush Fruit
-  Nut Crops
-  Cut Flowers

Guaranteed analysis

Nitrogen (N)	7.0%	Zinc (Zn)	0.78%
Phosphorus (P ₂ O ₅)	33.5%	Iron (Fe)	0.52%
Potassium (K ₂ O)	7.0%	Manganese (Mn)	0.27%
Magnesium (MgO)	4.2%	Copper (Cu)	0.027%
Boron (B)	1.05%	Molybdenum (Mo)	0.014%
Active Bud Bio-Pack	5.0%		

The importance of Phosphorus

As one of three major nutrients required by flowering and fruiting crops, phosphorus is essential for seed formation and vital for flowering and root support. Ensuring nutrient support for viability of seed is so important as it drives the growing crop to produce strong flowers for pollination which in turn promotes strong, healthy fruit production for transport and seed protection.

Plants grown for their seeds and fruits benefit from phosphorus, as it plays many roles in aiding the processes required to create a viable seed. Phosphorus supports the transfer of energy in plants, which is a different role from other plant nutrients, such as nitrogen. Nitrogen is part of the chlorophyll molecule and is needed for vegetative growth, whereas phosphorus promotes flowering and setting seed. High levels of phosphorus occur in both seeds and fruit, and plants low in phosphorus will set less flowers and fruit.

Application of Active Bud provides phosphorus and other essential nutrients during periods of peak demand when root available phosphorus is relatively low. Plants can only access 1% of available phosphorus from around roots and as phosphorus is an anion (negatively charge element) it is both highly mobile in soils and open to react and form bonds with other nutrients such as calcium. This means is it easily lost to groundwater or locked up as highly bonded compounds, reducing availability to plants.

The importance of Magnesium

For the purpose of bud formation and the processes of flowering and fruiting magnesium is incredibly important. Magnesium is essential for many plant functions as it is the central element of a chlorophyll molecule which supports photosynthesis. It plays a strong role in carrying phosphorus into the plant and is both an enzyme activator and a constituent of many enzymes which are vital to early flower and fruit formation. Magnesium is the main nutrient involved in carbohydrate (sugar) synthesis, which provides the energy needed for all essential processes and growth. Magnesium supports plant oil and fat formation in nuts and also translocates starch in all crops.

Being a secondary nutrient and in high demand during bud formation it is essential to have a steady supply of magnesium. Active Bud provides an essential boost to support the processes above and importantly to ensure phosphorus movement into the plant.



MAS-Power Active Bud Bio-Pack

MAS-Power Active Bud is unique in that it contains a soluble bio-pack to aid penetration of the spray and assimilation of the nutrients contained within it. The pack contains a proprietary blend of soluble plant extracts and amino acids at a level of 1kg in every bag naturally inducing developing buds to perform to their physiological processes with greater efficiency with lower energy expenditure.

Directions for Use

MAS-Power Active Bud is specifically created for foliar use. For a correct application of the product, it is recommended to apply enough water ensure full coverage of the applied crop. The recommended application rate for all fruiting crops 5.0-10.0kg per hectare diluted in 500-1000L of water (according to crop requirement). Avoid application when temperatures exceed 30°C and or in full sun. MAS-Power Active Bud contains high levels of available nutrients and should only be used as recommended.

Crop Timings and Application Rates

Crop	No of applications	Timing	Application rate
Top fruit	3-6	From bud break to early fruit development	5-10kg per Ha, depending upon water volume at 7-14 day intervals
Stone fruit	3-5	From bud break to early fruit development	5-7.5kg per Ha, depending upon water volume at 7-14 day intervals
Berry crops	3-5	From early flower bud growth to early fruit development	3-5kg per Ha, depending upon water volume at 7-10 day intervals
Vine crops	3-5	From bud break to early fruit development	5-7.5kg per Ha, depending upon water volume at 7-14 day intervals
Cut Flowers	2-3	From early flower bud growth to early fruit development	3-5kg per Ha, depending upon water volume at 7 day intervals

Compatibility

MAS-Power Active Bud is compatible with most known pesticides, PGR's and nutritional foliar products and will sit well within tank mixes, however it is advisable to conduct a jar test or speak to your Engage adviser where mixes contain multiple products or where a pesticide is being used for the first time. Do not mix with products containing calcium unless chelated. We recommend using Bio-Chel Ca with MAS-Power Active Bud.

For more information on MAS-Power Active Bud in regards individual rates of application or frequency of timing please contact your Engage Advisor.

Always read the label before use.



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