

BORDEAUX WG FUNGICIDE

"It sticks like..."

"YOU CAN GET MORE VATS OUT IN A DAY"

One of the more unpleasant and time consuming tasks for growers/ orchardists is mixing (making) their own "Bordeaux".

This mixture of copper sulphate and lime has been the backbone of disease control in vines for centuries.

In more recent times, the number of crops relying on this product has increased despite its relatively old technology and active ingredients. It has remained one of THE MOST RELIABLE tools for disease control.

Copper-based products have an added benefit over other protectant fungicides in that they are active against bacteria. Bacterial (*Pseudomonas* & *Xanthomonas*) diseases have become a major disease in many fruit and vegetable growing areas. Control of these diseases start with winter application of copper. Bordeaux is registered in a wide range of crops including stone fruit, mangoes, vines, tomatoes, etc.

Orchardists and farmers these days are "time poor". With the high cost of labour there are more and more demands on growers.

Grochem has released an "Easy-to-Use" Granular Formulation of Bordeaux, which contains Tribasic Copper Sulphate and Lime (Calcium Carbonate). Growers can therefore get "more vats out in a day" now that this time consuming mixing operation is no longer necessary.

Being a co-formulated granule, there is no need to concern yourself with drums. No need to shake drums, just pour the granules into the spray vat whilst the agitator is running and filling.

The improved formulation of Bordeaux contains Tribasic Copper Sulphate as opposed to straight Copper Sulphate. Copper Sulphate is soluble in water, which has inherent problems with sticking on plant tissue surfaces.

We operate in a winter rainfall part of the country. It is therefore essential that sprays applied over the winter months "stick" and are not washed off the plant surfaces.

The addition of calcium hydroxide assists with the sticking (tenacity) properties and this can be seen by the blue covering of the trees after spraying.

DIFFERENCES BETWEEN COPPER SULPHATE AND TRIBASIC COPPER SULPHATE:

Copper Sulphate is soluble in water whereas Tribasic Copper Sulphate is not soluble in water.

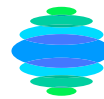
Solubility of Copper Sulphate is water temperature related. The colder the water, the more difficult the solubility, as can be seen in the following table:

TEMPERATURE	READING
0 C	148 g/kg
25 C	230 g/kg
50 C	335 g/kg

The other factor, which influences the solubility, is crystal size. Grochem Copper Sulphate has been milled to an ultra fine crystal size, which improves solubility significantly and even in coldwater conditions.

Grochem Bordeaux contains Tribasic Copper Sulphate. Being insoluble in water, results in improved residual activity and this is important as winter sprays are less frequent than spring applied sprays and grower expectation is that the copper is expected to last even in wet, rainy conditions.

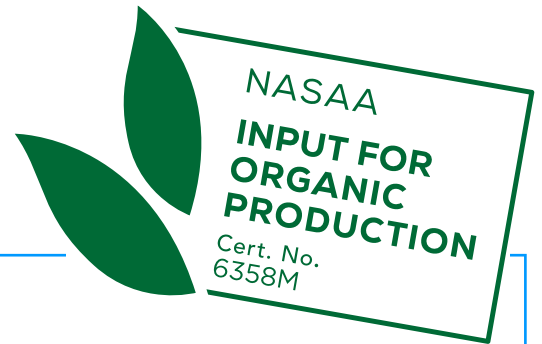
Make it easier on yourself – give it a go – stand back and see the difference.



BORDEAUX WG FUNGICIDE

BORDEAUX GRANULES

A high quality Bordeaux dryflowable granule



FEATURES & BENEFITS:

- **Active Ingredient:** Tri-basic copper sulphate formulation, containing lime (calcium hydroxide)
- **Dry flowable granular formulation** = minimal dust.
- **Small particle size** ensures great coverage & excellent weathering/sticking properties.
- **Time-saving formulation:** a pre-made Bordeaux mixture, ready to go - no mixing required.
- Registered on a range of fruit, vegetable & nut crops - for **specific disease control.**
- **Excellent dispersion & suspension characteristics.**
- **Convenient** 15kg pack sizes.
- Has the added benefit over other protectant fungicides in that it is **active against bacteria** (Pseudomonas and Xanthomonas)

TARGET DISEASES ON PERENNIAL TREE CROPS

Crop \ Disease	Apples	Pears	Nectarines	Peaches	Plums	Apricots	Cherries	Almonds
Black Spot	280g/100L	280g/100L						
Leaf Curl			280g/100L	280g/100L				
Shothole			280g/100L	280g/100L	280g/100L		280g/100L	280g/100L
Freckle						280g/100L		
Bacterial Gummosis						185-350g/100L	185-350g/100L	
Phytoohpthora stem canker			140g/1L	140g/1L	140g/1L			

*refer to product label before use.

HISTORY & RELIABILITY OF BORDEAUX:

Bordeaux was first used in France in the 18th Century and has been the backbone of disease control in vineyards for centuries.

In more recent times, the number of crops relying on this product have increased, and despite its relatively old technology and active ingredient, it has remained one of the most reliable tools for disease control.

Grochem Bordeaux is an improvement on the traditional Bordeaux, in that it is formulated as a wetttable granule, and the active ingredient (copper) is available as a tri-basic copper sulphate.

For more information, contact your local 7 Worlds Ag representative

www.7worlds.com.au

for all enquiries 1800 777 068

BORDEAUX