

The Finest Copper Sulphate used Worldwide



KONDODYS[®]

for the best bordeaux spray



Copper is vital for normal growth and well-being of plants and animals.



Kondody's most superior Copper Sulphate Pentahydrate, the best for a balanced Bordeaux Mixture and Bordeaux Paint, is manufactured by **Sanson Chemical Industries** an ISO 9001-2008 certified company, having a mission of commitment to delight the costumers. The firm's efficient R&D department constantly monitors the processing of the best raw materials to obtain consistent quality of the finished product. The product of the firm is widely accepted nationally & abroad. Export of its quality product is regular to Australia, New Zealand, African & EU nations. Use Kondody's Copper Sulphate to make the best Bordeaux Mixture and save your crops to give you the best yield.

Our extensive dealer network includes TATA Coffee Ltd., Indra Agri Supplies, Mangalore, Nagesh Sales Corp., The Campco Ltd., Karnataka & Kerala and covers more than 400 private dealers and Primary Agriculture Co-operative Societies in the states of Kerala, Karnataka & Tamilnadu.

Copper Sulphate is a fungicide used to control fungal and bacterial diseases of fruit, vegetable, nut, and field crops. These diseases include mildew, leaf spots, blights, berry & pod rots. It is used for the preparation of Bordeaux Mixture and other copper-based plant protection applications. It releases active copper ions that effectively control fungal diseases across a wide range of crops.

Why Farmers Prefer Kondodys Copper Sulphate ?

- Broad-spectrum disease control
- Long-lasting action when used as Bordeaux mixture
- Safe for crops, when used as recommended.
- Widely used in organic farming

Our Quality Features

- ISI marked
- 99.25% pure dark blue crystals, granules & sugar crystals
- copper content above 25 %
- PH maintained between 3 - 4
- dissolves fast and fully in good water
- copper deposit efficacy for 45 days and more on plants.

Product Specification*

Chemical Formula	CuSO ₄ ·5H ₂ O
Copper Sulphate Purity	99.25%
Copper Content	25.2%
Matter Insoluble	0.06%
Moisture	0.11%
Lead	4.27ppm
Cadmium	Not detected (DL : 0.004ppm)
Zinc	85.52ppm
Arsenic	Not detected (DL : 0.01ppm)
pH of 10% Solution	3.44
Appearance	Dark Blue Crystals
Weight and Packaging	In 5kg / 25kg / 50kg HDPE Woven bags / HDPE with Liner & 1kg packs

* Test result of SGS India Pvt. Ltd., an Internationally approved laboratory.

Applications of Copper Sulphate

- Preparation of Bordeaux mixture and Bordeaux paint /paste
- Control of fungal and bacterial diseases
- Topical treatment to combat hoof rot in horses, cattle etc.
- As a micronutrient source to correct copper deficiency in soil
- As an algacide in water reservoirs, drainage canals, ponds
- Raw material in the production of plant protection chemicals
- As trace element in animal feeds / health drinks
- Used in electroplating and mining
- In leather, plywood, paint, dyes & pigment industries



Blue Large Crystals Blue Granules (1-2mm, 2-4 mm) Sugar Crystals

Certifications

- | ISO 9001 - 2008 Certified | ISI 261 2023 Marked
- | UPASI Tested
- | Approved by Coffee Board Lab
- | Reach support for Exports to EU Region

Approved by, Kerala Agriculture Dept., Rubber Board, United Planters Association of South India, Central Coffee Research Institute, Balehonnur.
Member: Chemicals Export Promotion Council (CHEMEXIL), Bureau of Indian Standards, Confederation of Indian Industry (CII), Kerala State Small Industries Association.

BORDEAUX MIXTURE PREPARATION FOR 1% SPRAY



Dilute 1 kg Copper Sulphate and 700 gms Lime in separate containers



Pour the diluted copper sulphate & lime solution together 100 ltrs of water



Add wetting agent / Spreader



Test the neutrality of the mixture using litmus paper or P_H meter

BORDEAUX MIXTURE was introduced by a French botanist, P. M. A. Millardet from the University of Bordeaux, France in the year 1885 for the management of Downy mildew of grapes. Bordeaux Mixture spray, an economic prevention, provides a broad spectrum of protective disease control by preventing or inhibiting the disease before the fungi or bacteria enter the plant. Bordeaux Mixture has a long residual action (ability to persist through rains and to adhere to plants) and has been successfully used for over 100 years for leaf spots, blights, rots, rusts, anthracnose, downy mildew and cankers. When used as a basin drench treatment it controls the spread of root rot pathogens from diseased plants to healthy ones.

How to get best results from the best Bordeaux Mixture

- Use Kondody's most superior Copper Sulphate dark blue crystals / Granules or Sugar crystals
- Use the best quality lime for a neutral mixture only 700gms of Calcium hydroxide 90 % pure (Slaked lime) for 1kg of Copper Sulphate (1%)
- PH of the mixture - between 9 to 10 for maximum efficiency
- Adjutants like spreaders and wetting agents may be added to the mixture to spread evenly over leaves, berries and increase coverage and adhesion on plant surfaces
- The mixture tends to sediment easily. Therefore, its stirring while using is desirable (a wooden stick is ideal)
- Do not use the Bordeaux Mixture in combination with any other chemicals or pesticides
- The application of the mixture should be done on time with adequate coverage underneath the leaf surface for the effective control on the spread of the fungus to newly generated young shoots.
- Avoid spraying in exceptionally hot days, when the plants are showing signs of temporary wilting or in case of continuous and heavy rains.
- The left over Bordeaux Mixture should not be dumped in the field, as this may prove toxic to the subsequent sowings.

Diseases on crops for which Bordeaux Mixture is extensively used

Bordeaux Mixture (prophylactic) spray should be done during pre-monsoon (may - june) & post-monsoon (September - October) periods for prevention against fungal diseases

Arabica Coffee ▶ Leaf Rust, Black Rot, Die Back (pre- blossom spray)
 Arecanut Tree ▶ Koleroga (fruit rot), Bud Rot
 Pepper Vine ▶ Quick Wilt, Fungal Pollu (Anthracnose)
 Cardamom ▶ Azhukal (Capsule Rot), Leaf Blotch
 Rubber Tree ▶ Pink Disease & Patch Canker, Abnormal Leaf fall
 Grape Vine ▶ Powdery Mildew, Downy Mildew
 Cocoa ▶ Black Pod, Charcoal Rot
 Pomegranate ▶ Anthracnose, Bacterial Blight

*The time of spray may vary slightly depending on the forecast of monsoon arrival, flowering and disease prevalence in your area

Bordeaux Mixture spray for the prevention of Coffee Leaf Rust

Leaf Rust is caused by the fungus *Hemileia vastatrix* which normally lives as an obligate parasite in the leaves and sometimes also in the young shoots and fruits of coffee plants.

- Spray 0.5% Bordeaux Mixture during May-June (pre-monsoon) and August to September periods.
- Skipping of spray will also lead to the development of black rot, stalk rot and other disease problems in Arabica plantations.
- Heavy defoliation causes higher levels of white stem borer problem and imbalance in fruit development and ripening.
- Bordeaux Mixture spray stimulates the chlorophyll formation, facilitating the foliar development
- It acts as a micro nutrient of plants

Preparation of an effective Bordeaux Mixture



Ingredients

Strength 1% ie 1:1:100

Kondody's Copper Sulphate	1Kg.
Hydrated Lime 90% Ca(OH) ₂	700gm to 1 Kg.
Water	100 litres.

Take 50 litres of water and dissolve the Copper Sulphate, in the other 50 litres dissolve 700 gms lime. Use earthen, wood or plastic vessel for making the solutions. Slowly pour the copper sulphate solution into the lime solution and stir it while mixing.

OR

Mix the Copper Sulphate solution and lime suspension by pouring them together into a third vessel and constantly stir the mixture with a wooden stick while mixing and using. Test the neutrality of the mixture by either dipping an old knife or do the litmus test. 1 kg of Kondody's Copper Sulphate requires only 700gms of chemically pure lime to precipitate all the copper.

Always wear protective gear (gloves, goggles, long sleeves) when preparing and applying the mixture.

Bordeaux Mixture, basically a mixture of Copper Sulphate and hydrated lime which gets its name from years of use in the French Vineyards and as the mixture contains only 'natural ingredients', it may be considered ORGANIC (Organometallics).

"Agri. Growers are relieved from the tedious process of preparing Bordeaux Paste"

Ready to use
KONDODYS
Bordeaux
 paint



PREVENTIVE
 FUNGICIDE
 CURATIVE

Sanson Chemical Industries, the leading manufacturer of Kondodys 99% Copper Sulphate is presenting yet another novel product. It is an organic combination of our Copper Sulphate, the world famous Vembanadu lime and traditionally used neem oil. This fungicidal Copper Sulphate paint is the best preventive and curative fungicide against Pink and patch Canker in Rubber trees of all ages, Foot Rot in Pepper, Bud rot in Coconut trees, and Azhukal in Cardamom.



Dilute 1 Kg Bordeaux paint in 50 Ltrs of water for spraying on plants

Bordeaux paste is commonly applied to fresh pruning wounds and cut ends of branches/ roots to protect against infection caused by pathogens such as canker-causing fungi, gummosis, collar rot, bark blight in fruit trees such as grapes, Apple, pears, and citrus etc and other horticulture crops.