

**SUMMARY OF IS 15601:2005**  
**CYMOXANIL +MANCOZEB WETTABLE POWDER SPECIFICATION**

Cymoxanil + Mancozeb wettable powder is a fungicide for agricultural use. It is mixture of two fungicides- Mancozeb and Cymoxanil. The partner Mancozeb acts by its contact action. Mancozeb is fungitoxic when exposed to air. It is converted to an isothiocyanate, which inactivates the Sulphahydral (SH) groups in enzymes of fungi. Sometimes the metals are exchanged between Mancozeb and enzymes of fungi, thus causing disturbance in fungal enzyme functioning. Other partner Cymoxanil has contact and locally systemic activity. It inhibits Sporulation in fungi.

Cymoxanil + Mancozeb wettable powder is manufactured to contain Cymoxanil 8 percent m/m and Mancozeb 64 percent m/m.

Farmers of Grapes, hops, potatoes, tomatoes, cucurbits, vegetables use this fungicide for control of downy mildew and late blight diseases. The requirement of farmers is an easy to use fungicide with active components providing reliable efficacy.

Indian Standard IS 15601:2005 addresses this by prescribing that the material should in the form of free flowing yellow coloured homogeneous powder. It shall wet readily on mixing with water, providing a suspension suitable for use as spray.

This standard prescribes test for Suspensibility, Wettability, Sieving requirement Acidity and Alkalinity along with active content requirement.

The cross referred test methods in the standard prescribe determination of Cymoxanil content through high performance liquid chromatography ( HPLC ) and Mancozeb content by quantifying carbon disulphide content, generated during acidic digestion.

Compliance to requirements prescribed in the standard ensures effective fungicide solution to protect agricultural crops.