



## **ADVICE SUMMARY**

### **APPLICATION FOR REGISTRATION OF A CHEMICAL PRODUCT**

**Product name:** MELPAT ZIRAM WG FUNGICIDE  
**Applicant:** MELPAT INTERNATIONAL PTY LTD  
**Product number:** 70048  
**Application number:** 62369

**Purpose of Application and Description of Use:** Registration of a 760 g/kg Ziram, water dispersable granule product for the control of various fungal diseases of grapes, pome and stone fruit, celery and roses.

**Active Constituent(s):** ZIRAM

#### **Regulatory Decision:**

To grant the application subject to the following conditions:

#### **Standard Conditions of Registration/Approval**

1. Containers must meet AgVet Code Regulation 18
2. Agricultural products must meet Active Constituents Quality Assurance Requirements
3. Label must contain a Date of Manufacture and Batch Number

For full conditions, refer to Standard Conditions for Applications on the APVMA website.

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### State/External Efficacy Reviewer

The applicant submitted data from five Australian field trials. The trials compared the efficacy, crop safety and bioequivalence of Melpat Ziram against industry standard fungicides for control of Leaf curl and Blossom Blight in Peaches and Black Spot in Apples. To support the label claim that the candidate is safe to use following early applications of copper fungicides, data was also presented from a trial in almonds for the control of the label diseases, Blossom Blight, and Shot Hole.

All trials were replicated and randomized. The candidate was tested at label rates and twice label rates and compared to an industry standard and un-treated controls. The candidate was trialled with up to four applications on various stages of fruit development.

In all the trials presented, the performance of Melpat Ziram was equivalent to the industry standards tested. The incidence of blossom blight in peaches was reduced to 0.3% compared to 10.4% for the untreated controls when used at the rate of 150 g/100L (114 g ai/100L) for four applications. In trials on control of leaf curl in peaches both Melpat Ziram and the industry standard with a single application at the label rate of 240 g/100L (i.e. 182.4 g ai/100L) or at double the label rate (i.e. 364.8 g ai/100L), gave equivalent and 100% control of leaf curl.

The data provided justified the label claim that the product was safe to use following an early application of a copper fungicide. This was supported by a trial conducted on almonds in which applications of copper fungicides were followed by applications of ziram fungicides including the candidate to control diseases. Two applications of either Melpat Ziram or an industry standard significantly reduced shothole disease in almonds when applied after a copper fungicide application at budswell. There were no significant differences between the various ziram fungicides when used at their respective label rates. Disease failed to develop in the NSW trial in pome fruit against Black Spot, however the trial demonstrated that Melpat Ziram was safe to use on Red Delicious Apples.

Phytotoxicity assessments were conducted in each of the studies presented by the applicant. There was no evidence of phytotoxicity in these trials even when the product was used at twice the label rate and the product can be considered safe to use on the crops for which it is intended if used according to the label recommendations.

Studies were not submitted to support label claims for grapes, celery and roses as the applicant provided evidence of the bioequivalence of Melpat Ziram to industry standards registered for these diseases. For this reason the label claim of efficacy in grapes, roses and celery is justified and supported by bioequivalence to other ziram containing fungicides already in use.

Based on the data provided the APVMA is satisfied that Melpat Ziram WDG Fungicide should be as safe and efficacious as the industry standards tested.

## Data relied on to provide the advice

Data No	Data Source*	Author(s)	Title	Date	Data Type	Data Sub-type	Authorising Party	Inherited Application No.
87901	S	David J Bell	Evaluate the Efficacy and Crop Safety of Melpat Ziram, Kaarimba, Victoria 2012	September 2012	Efficacy and safety	Efficacy	Applicant	
87902	S	David J Bell	Bioequivalence of Melpat Ziram and Melpat Captan for control of blossom blight ( <i>Monilinia laxa</i> ) in peaches, Shepparton East, Victoria, 2012	17 September 2012	Efficacy and safety	Efficacy	Applicant	
87903	S	Les Mitchell	Evaluation and Comparison of Melpat Captan, Melpat Dithianon and Melpat Ziram with their commercially available equivalent products for the control of diseases in Pome Fruit	29 September 2010	Efficacy and safety	Efficacy	Applicant	
87904	S	David J Bell	Melpat International Pty Ltd - Copper Fungicides - Almonds, Robinvale, Victoria 2013	February 2013	Efficacy and safety	Efficacy	Applicant	
87900	S	David J Bell	Evaluate the Efficacy and Crop Safety of Melpat Ziram, Kaarimba, Victoria 2012	September 2012	Efficacy and safety	Efficacy	Applicant	

\* S = Data submitted with the application

I = Data inherited (that is, referenced) from another application