

Evaluation Report for Category B.3.10, B.3.11, B.3.12, B.3.13 Application

Application Number: 2008-3070
Application: Tank Mixes, New Pests, New Site or Host, Precautions, Tank Mixes, New Pests, New Site or Host, Precautions
Product: ID Fungicide
Registration Number: 29866
Active ingredients (a.i.): Iprodione (IPD)
PMRA Document Number : 2038574

Purpose of Application

The purpose of this submission was to register a new end-use product, ID Fungicide, containing the active ingredient iprodione, with an associated tank mix partner, Titan ST Insecticide (Registration Number 27449; active ingredient: clothianidin), for use as a seed-piece treatment on potatoes.

Chemistry Assessment

ID Fungicide is formulated as a suspension containing iprodione at a nominal concentration of 240 g/L. This end-use product has a density of 1.03 g/mL. A chemistry assessment was not required since there was no change to product chemistry. The chemistry requirements for ID Fungicide are complete.

Health Assessments

ID Fungicide is of low toxicity via the oral ($LD_{50} = 4450$ mg/kg bw) and dermal ($LD_{50} > 2000$ mg/kg bw) route and is of slight toxicity via the inhalation route ($LC_{50} = 1.62$ mg/L). It is not irritating to eyes or skin of rabbits and is not a dermal sensitizer in guinea pigs (Buehler method).

Residue data for iprodione in potatoes were submitted to support the use on seed-piece potatoes of this active on the ID Fungicide label. Residue data from field trials and processing studies conducted in/on potatoes were assessed in the framework of this petition.

The use of the tank mix partner Titan ST Insecticide falls within the registered use pattern for this product; therefore, there is no increase in dietary exposure to clothianidin resulting from this use.

Maximum Residue Limit(s)

Based on the maximum residues observed in potatoes treated according to label directions, maximum residue limits (MRLs) to cover residues of iprodione and the metabolites RP30228 and RP32490 in/on potatoes will be established as shown in Table 1. Residues in processed commodities not listed in Table 1 are covered under established MRLs for the raw agricultural commodity (RAC).

Commodity	Application Method/ Total Application Rate	PHI (days)	Residues		Experimental Processing Factor	Currently Established MRL	Recommended MRL
			Min	Max			
Potatoes	Seed-piece treatment/ 9.7-10.3 g a.i./100 kg seed	74-127	All below the limit of quantitation (LOQ) (<0.03 ppm)		No concentration of residues in potato processed fractions used as food	None	0.03 ppm

Following the review of all available data, an MRL of 0.03 ppm for potatoes is recommended to cover residues of iprodione and the metabolites RP30228 and RP32490. Residues in potatoes at the established MRLs will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

An occupational health risk assessment was conducted for the use of ID Fungicide on potato seed pieces. Exposure to iprodione from cutting/sorting and treating potato seed pieces, as well as planting treated potato seed pieces was assessed. No unacceptable risk from the exposure to iprodione is expected when workers follow the label directions and wear the personal protective equipment identified on the label.

Environmental Assessment

An environmental assessment was not conducted because the use is the same as that currently registered for iprodione when used in a tank mix with the active ingredient thiram (Foundation CST Lite, Registration Numbers 25591 and 25592). The accepted rate of application is significantly lower than the registered rate, hence, there is no potential increase in the environmental exposure and impact from that of the currently registered use of iprodione.

Value Assessment

Three trials were conducted to evaluate the efficacy of Titan ST Insecticide as a tank mix partner with ID Fungicide at labelled rates for control of Colorado potato beetle (*Leptinotarsa decemlineata*). No reduction in efficacy was observed between plots treated with Titan ST Insecticide alone and those treated with the tank mix. Based on efficacy of the tank mix on Colorado potato beetle, the addition of the tank mix to the label of ID Fungicide for control or suppression of labelled insect pests is acceptable from a value and sustainability perspective. As per the label of Titan ST Insecticide, the tank-mix is currently accepted for suppression of wireworm on potatoes.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support for the product, ID Fungicide, and has found the information sufficient to support the new end-use product.

References

PMRA Document Number	Reference
1626331	2008, Magnitude of residues in/on potatoes treated with a seed piece treatment of the fungicide Rovral Flo, DACO: 7.2.1,7.4.1,7.4.2,7.4.6
1626334	1987, Residue data for potato tubers, chips, flakes and granules treated at 20 and 40 lb ai/A, DACO: 7.4.5
1626335	1987, Residues of iprodione and its metabolites (RP-30228 & RP-32490) in stock feed (potato peels) from the processing of potatoes treated with Rovral 50 WP, DACO: 7.4.5
1626325	2008, ID Fungicide 240 SC (240 g a.i./L iprodione) for Control of Seedborne Rhizoctonia on Stems and Stolons, and Suppression of Seedborn Helminthosporium, DACO: 10.1,10.2.2,10.2.3.1,10.2.3.3(D),10.3.1,10.3.2(B)

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