

Evaluation Report for Category B, Subcategory 1.2 Application

Application Number: 2004-1424
Application: B.1.2 (new source by different registrant)
Product: Fungitrol 400S Fungicide Technical
Registration Number: 28583
Active ingredients (a.i.): 3-iodo-2-propynyl-butyl carbamate (IPB)
PMRA Document Number: #1448627

Background

The original source of 3-iodo-2-propynyl butyl carbamate technical active ingredient, “Polyphase P100” (Reg. No. 21750) was first registered in 1990.

Purpose of Application

The purpose of this application is to register a new technical source of 3-iodo-2-propynyl butyl carbamate.

Chemistry Assessment

Common Name: Iodocarb
Chemical Name: 3-iodo-2-propynyl-butyl carbamate

Fungitrol 400S Fungicide Technical has the following properties:

Property	Result
Colour	Off-white
Physical state	Solid (at 20°C)
Odour	Odourless
Specific gravity	1.63
Water solubility	146 mg/L
Vapour pressure	3.8 x 10 ⁻³ Pascals (at 25°C)
pH	6.2 (1% w/v suspension)
Octanol / water partition coefficient (K _{ow})	Log K _{ow} = 2.3

The chemistry requirements for Fungitrol 400S Fungicide Technical are complete.

Health and Environmental Assessment

The health and environmental risk profile of Fungitrol 400S Fungicide Technical is expected to be similar to that of the original registered source of Polyphase P100. However, due to product specific registration (data protection) considerations (see Trade Memorandum T-1-249, “Product-Specific Registration and Proprietary Rights to Data”), the applicant was required to generate the following studies as a condition of registration:

Study Description and organism/type	DACO
Analytical Methodology for soil	8.2.2.1
Analytical Methodology for water	8.2.2.2
Analytical Methodology for sediment	8.2.2.3
Analytical Methodology for biota (fish)	8.2.2.4
Phototransformation on soil	8.2.3.3.1
Phototransformation in water	8.2.3.3.2
Aerobic aquatic biotransformation (with a minimum of sediment)	8.2.3.5.2
Incineration/thermal decomposition	8.5.2
Acute toxicity to salmonid fish species	9.5.2.4
Salinity challenge with a salmonid fish species	9.5.2.4.1
Acute oral toxicity to bobwhite quail	9.6.2.1
Acute oral toxicity to mallard duck	9.6.2.2
Dietary toxicity to bobwhite quail	9.6.2.4
Toxicity to freshwater algae – Performed against three target species: <i>Pseudokirchneria subcapitata</i> , <i>Anabaena flosaquae</i> and <i>Navicula pelliculosa</i>	9.8.2
Toxicity to marine / estuarine algae <i>Skeletonema costatum</i>	9.8.3
Aquatic vascular plant – Target species must be <i>Lemna gibba</i> OR <i>Lemna minor</i>	9.8.5
Multigeneration – Reproduction (rodent)	4.5.1
Metabolism (labelled) rat	4.5.9
90-day inhalation (rat)	4.3.6
Teratogenicity (rodent)	4.5.2
Subchronic Oral (90-day oral Rat)	4.3.1
Octanol/Water partition coefficient	2.14.11
Vapour pressure	2.14.9

Value Assessment

A value assessment is not required for technical grade active ingredient products.

Conclusion

The PMRA has completed its evaluation of the subject application and has determined that Fungitrol 400S Fungicide Technical is eligible for full registration.

References

Studies/Information Provided by Applicant/Registrant

<u>PMRA#</u>	<u>Title</u>
1260315	Series 830: Product Identity and Composition Certified Limits, DACO 2.12.1
1260316	2001, Fungitrol 400 Fungicide Five-Batch Analysis on Technical Grade Active Ingredient, DNN130/004612, DACO: 2.13.3
1260317	2001, Fungitrol 400 Fungicide Physico-Chemical Properties, DNN129/004571, DACO: 2.14.1,2.14.10,2.14.11,2.14.13,2.14.2,2.14.3,2.14.4,2.14.6,2.14.7,2.14.8, 2.14.9,2.16
1260314	2001, Product Chemistry, Chemical and Physical Properties, Manufacturing-Use Product Chemistry Data and Confidential Business Attachment and Appendix 1-9 Material Safety Data Sheets, DACO: 0.9.1,2.1,2.11.1,2.11.2,2.11.3,2.11.4, 2.14.1, 2.14.10,2.14.11,2.14.
1260318	1997, U.S. EPA, Reregistration Eligibility Decision (RED) 3-Iodo-2-propynyl butyl carbamate (IPBC), DACO: 12.5
1260319	2001, US EPA Product Chemistry Review of: Fungitrol 400 Fungicide. Notice of pesticide registration, DACO: 12.5.2

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