



Evaluation Report for Category B, Subcategories: B.3.12 (New Site or Host), B.3.14 (Classification), C.2.3 (Identity of Formulants), C.8.1 (Master Product) Application

Application Number: 2005-1770
Application: Evaluation Report for Category B, Subcategories: B.3.12 (New Site or Host), B.3.14 (Classification), C.2.3 (Identity of Formulants), C.8.1 (Master Product)
Product: Devrinol 2-G (Ready-to-Use) Herbicide
Registration Number: 28512
Active ingredients (a.i.): Napropamide
PMRA Document Number: 1365372

Purpose of Application

The purpose of this submission is to register “Devrinol 2-G (Ready-to-Use) Herbicide”, a new domestic class end use product based on the commercial product 25297. For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

Chemistry Assessment

A chemistry assessment was not required as there was no change to product chemistry.

Health Assessment

Devrinol 2-G is of low acute toxicity by the oral ($LD_{50} > 5000$ mg/kg bw) and inhalation ($LC_{50} > 2.6$ mg/L) routes in rats and by the dermal (> 5000 mg/kg bw) routes in rabbits. It is non irritating for the eyes and the skin in rabbits. It is not a skin sensitizer in Guinea pigs.

Risk estimates for workers applying Devrinol 2-G (Ready-to-Use) Herbicide around ornamental plants are considered acceptable. Post-application exposure is expected to be minimal since the application instructions recommend incorporating the product into the soil using cultivation, watering or rain fall. As such a quantitative post-application risk assessment was not conducted.

Since this is the first time napropamide has been registered as a domestic class product, and there are food uses on the label, aggregate risk was considered. Since the dietary risk cup was less than 2% full in a conservative Tier 1 assessment conducted by the US EPA and the estimated exposure to homeowners is low, aggregate exposure is considered to be acceptable.

Environmental Assessment

An environmental assessment was not required since the use pattern for Devrinol 2-G (Ready-to-Use) Herbicide is small compared to the registered agricultural use pattern.

Value Assessment

The proposed domestic Devrinol 2-G (Ready-to-Use) Herbicide is acceptable for registration from a value standpoint based on the following facts:

- (1) The proposed Devrinol 2-G (Ready-to-Use) Herbicide and the registered Devrinol 2-G Selective Herbicide have a similar formulation.
- (2) All the pest and host claims and use patterns proposed for Devrinol 2-G (Ready-to-Use) Herbicide are currently registered on the Devrinol 2-G Selective Herbicide label.
- (3) Application rates for Devrinol 2-G (Ready-to-Use) Herbicide and Devrinol 2-G Selective Herbicide are similar, 23 grams product per square metre for Devrinol 2-G (Ready-to-Use) Herbicide (4.6 kg a.i./ha) and 225 kg product per hectare (4.5 kg a.i./ha) for Devrinol 2-G Selective Herbicide.

Conclusions

The Agency has completed an assessment of available information for Devrinol 2-G (Ready-to-Use) Herbicide and has found the information sufficient to allow for full registration.

Reference List

A. List of Studies/Information Submitted by Registrant

Value Assessment

PMRA #: 1061419 Proposed product label for Devrinol 2-G (Ready-to-Use) Herbicide, United Phosphorus Inc.

B. Additional Information Considered

None

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