

Evaluation Report for Category B, Subcategory 4.1 Application

Application Number: 2008-2282
Application: B.4.1 Conversion to full registration without consultation
Product: Verbenone Pouch Mountain Pine Beetle Repellent
Registration Number: 28919
Active ingredients (a.i.): Verbenone (PMB)
PMRA Document Number: 2009534

Purpose of Application

The purpose of this application was to convert the registration status of the end-use product, Verbenone Pouch Mountain Pine Beetle Repellent (Registration Number 28919) from conditional to full.

Chemistry Assessment

This end-use product is formulated as a slow release generator containing Verbenone Technical at a nominal value of 7g per pouch. This end-use product has a density of 0.98 g/cm³.

Health Assessments

A food exposure assessment was not required and no additional occupational exposure information was required for this application.

The data requirements were waived for this end-use product, on the basis that the active ingredient, Verbenone Technical (Registration Number 28259), would be used instead of the toxicological information required for the end-use product.

The acute oral toxicity of Verbenone Technical was slight, having an LD₅₀ of 1700 mg/kg bw in female rats. The acute dermal toxicity of Verbenone Technical was low, with an LD₅₀ > 2000 mg/kg bw in rabbits, and a waiver was granted for the acute inhalation of its toxicity. The primary eye irritation of Verbenone Technical was mildly irritating in rabbits. With respect to skin irritation, it was minimally irritating in rabbits. The need for dermal sensitization information for Verbenone Technical was waived since positive results were not found in public literature. However, Verbenone is ubiquitous in areas containing conifer stands.

The precautionary label statements and directions for product placement in the field (maximum reach) adequately address any potential risk due to exposure of the applicator and bystanders to the end-use product.

Environmental Assessment

This pheromone will pose negligible risk to terrestrial or aquatic organisms. The chemical is released from fixed dispensers (pouches) at a rate where air concentrations will remain low and will have minimal effects on terrestrial organisms. Minimal exposure to aquatic systems is expected since the pheromone will not readily dissolve in water while in a gaseous state. Ingestion of the pouch containing Verbenone Technical by terrestrial organisms (e.g. birds or squirrels) is not likely to occur as it is too large for most animals to consume.

Value Assessment

No further value assessment data was required for the conversion of this product to full registration.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support for the product, Verbenone Pouch Mountain Pine Beetle Repellent, and has found the information sufficient to convert the registration status from conditional to full.

References

| <i>PMRA Number</i> | <i>Title</i> |
|------------------------|---|
| 1046642 | 1987, Verbenone: Acute Oral Toxicity, Acute Dermal Toxicity, Primary Skin Irritation and Primary Eye Irritation., DACO: 4.2.1,4.2.2,4.2.3,4.2.4,4.2.5 |
| 1046644 | Verbenone: Acute Oral Toxicity, Acute Dermal Toxicity, Primary Skin Irritation and Primary Eye Irritation - reformatted report. reformatted;, DACO: 4.2.1 |
| 1046645 | Memorandum from R. Garner to A. Bryceland re: status of acute toxicity studies/ purity of Verbenone. Date of memo: March 13 2003. Comments: confirms purity of material used, DACO: 4.2.1 |
| 1046646 | Acute Inhalation - Request for waiver. Comments: 4.2.1 /02 is a reference cited, DACO: 4.2.3 |
| 1046647 | Dermal Sensitization Request for waiver. Comments: 4.2.1 /02 is a reference cited, DACO: 4.2.6 |
| 1159350 | Flake Test. A summary of a non-GLP/QA/QC study prepared by Wildlife International Ltd. 4 pp DACO 9.3.2 |
| 1159351 | 2006, Waiver request for DACO 9.5.2, 9.5.2.1, 9.5.2.2 (Fish) |
| 1159352 | 2006, Waiver request for DACO 9.6.2, 9.6.2.1, 9.6.2.2 (Birds) |

ISSN: 1911-8082

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