

Evaluation Report for Category B, Subcategory 2.1, 2.3, 2.4 Application

Application Number: 2016-3464
Application: New EP Product Chemistry – Guarantee/ Identity of Formulants / Proportion of Formulants
Product: Prozap 10% Zinc Phosphide Tracking Powder
Registration Number: 33076
Active ingredient (a.i.): Zinc Phosphide
PMRA Document Number: 2843890

Purpose of Application

The purpose of this application was to register the end-use product Prozap 10% Zinc Phosphide Tracking Powder, to be used indoors to kill house mice and Norway rats.

Chemistry Assessment

Prozap 10% Zinc Phosphide Tracking Powder is formulated as a powder containing zinc phosphide at a concentration of 10%. This end-use product has a density of 0.613 g/mL and pH of 6.42. The required chemistry data for Prozap 10% Zinc Phosphide Tracking Powder have been provided, reviewed and found to be acceptable.

Health Assessments

Prozap 10% Zinc Phosphide Tracking Powder is considered to be highly acutely toxic via the oral route of exposure, and of low acute toxicity via the dermal route. It is slightly acutely toxic via the inhalation route of exposure. Prozap 10% Zinc Phosphide Tracking Powder is not considered to be irritating to the skin, is minimally irritating to the eyes and is not expected to be a dermal sensitizer.

A human health exposure evaluation was completed for Prozap 10% Zinc Phosphide Tracking Powder to control mice and Norway rats. No risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label and ensure the product is not used in residential areas.

Environmental Assessment

No environmental concerns are expected with the use of Prozap 10% Zinc Phosphide Tracking Powder.

Value Assessment

Four submitted laboratory studies supported label claims for Prozap 10% Zinc Phosphide Tracking Powder. The studies demonstrated that use of this product resulted in 100% mortality of house mice and Norway rats within three days. Based on extrapolation from registered rates and the value information provided, Prozap 10% Zinc Phosphide Tracking Powder kills house mice when applied at a rate of 3 to 6 grams in approximately 7 cm by 60 cm patches, and kills Norway rats when applied at a rate of 9 grams in approximately 10 cm by 30 cm patches.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to support the registration of Prozap 10% Zinc Phosphide Tracking Powder to be used indoors to kill house mice and Norway rats, as a restricted class product that cannot be used in residential areas, and can only be used by certified pest control operators, farmers, and persons authorized in government-approved pest control programs.

References

A. Studies/Information Submitted by Registrant

PMRA Document Number	Reference
2659125	2012, Commensal Rodenticide Efficacy Data - Proposed House Mouse Acute Tracking Powder Efficacy, DACO: 10.2.3
2659126	2012, Commensal Rodenticide Efficacy Data – Standard Norway Rat Acute Tracking Powder Efficacy, DACO: 10.2.3
2697251	2016, Waiver - Non-Safety Adverse Effects, DACO: 10.3.2
2659119	2014, Prozap 10% Zinc Phosphide Tracking Powder: Physical and Chemical Characteristics: Color, Physical State, Odor, Oxidation/Reduction/pH, and Density/Bulk Density, DACO: 3.5
2697247	2015, Analysis of Prozap 10% Zinc Phosphide Tracking Powder, DACO: 3.4.1
2697248	2016, Determination of Zinc Phosphide in 10% ZP Tracking Powder by Phosphine Evolution Using a Titration Method, DACO: 3.4.1
2697249	2014, Method Validation, Initial Analysis and One Year Storage Stability and Corrosion Characteristics of Prozap 10% Zinc Phosphide Tracking Powder, DACO: 3.5.10
2769285	2017, Manufacturing Procedures for Prozap 10% Zinc Phosphide Tracking Powder, DACO: 3.2.2
2659122	2013, Prozap 10% Zinc Phosphide Tracking Powder: Acute Inhalation Toxicity Study in Rats, DACO: 4.6.3
2659123	2013, Prozap 10% Zinc Phosphide Tracking Powder: Primary Eye Irritation Study in Rabbits, DACO: 4.6.4
2764481	2017, Response to PMRA Deficiency for Prozap 10% Zinc Phosphide Tracking Powder, EP, DACO: 4.6.1, 4.6.2, 4.6.5, 4.6.6

B. Additional Information Considered

PMRA Document Number	Reference
2864435	2010, European Food Safety Authority; Conclusion on the peer review of the pesticide risk assessment of the active substance zinc phosphide. EFSA Journal 2010; 8(7):1671.

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