

Evaluation Report for Category L, Subcategory 1.2 Application

Application Number: 2022-6117
Application: Application Subject to the Protection of Proprietary Interests in Pesticide Data (PIIP) Policy - Equivalency/Data Compensation Assessment
Product: Weevil-Cide Gas Bags
Registration Number: 35210
Active ingredient (a.i.): Aluminum phosphide
PMRA Document Number: 3578481

Purpose of Application

The purpose of this application was to register a new restricted class end-use product, Weevil-Cide Gas Bags, based on a registered precedent product.

Chemistry Assessment

Weevil-Cide Gas Bags is formulated as a powder containing aluminum phosphide at a concentration of 60%. This end-use product has a density of 0.92 g/mL and pH of 9.4. The required chemistry data for Weevil-Cide Gas Bags have been provided, reviewed and found to be acceptable.

Health Assessments

Weevil-Cide Gas Bags is considered to be of high acute toxicity via the oral, dermal and inhalation routes of exposure. It is considered to be non-irritating to the skin and extremely irritating to the eyes, and is not expected to be a potential dermal sensitizer.

The use pattern of Weevil-Cide Gas Bags is comparable to the registered use pattern of the precedent product. Therefore, potential exposure for applicators and bystanders is not expected to exceed the current exposure to the registered products of aluminum phosphide. No health risks of concern are expected for workers and bystanders when label directions, precautions and restrictions are followed.

No new residue data for aluminum phosphide were submitted or were required to support the registration of Weevil-Cide Gas Bags. Previously reviewed residue data were re-assessed in the framework of this application. The use directions on the Weevil-Cide Gas Bags label, including the target crops, dosage rates, exposure periods, aeration durations, and any other use restrictions are comparable to those on the label of the precedent product.

Based on this assessment, residues of phosphine are not expected to be greater than those from the currently registered uses and will be covered by the established maximum residue limits (MRLs). Consequently, dietary exposure to residues of phosphine is not expected to increase with the registration of Weevil-Cide Gas Bags and will not pose health risks of concern to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

An environmental assessment was not required for this application.

Value Assessment

The value of Weevil-Cide Gas Bags was based on similarity of chemical properties to a precedent product. Due to the similarity in product chemical properties, Weevil-Cide Gas Bags is considered to be equivalent in terms of efficacy to the precedent product and is expected to provide similar product performance. The addition of this insecticide restricted end-use product will provide an alternative product for use to manage several pests on stored grains, processed foods, feeds and non-food commodities.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to support the registration of Weevil-Cide Gas Bags.

References

PMRA

Document Number

Reference

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| 3409348 | 2022, Weevil-Cide Gas Bags (Aluminum Phosphide 60% Bag Formulation) Product Identity and Composition, Description of Materials Used, Description of the Formulation Process, Discussion of the Formation of Impurities, and Certified Limits, DACO: 3.2.1,3.2.2,3.2.3,3.3.1 CBI |
| 3409349 | 1999, Preliminary Analyses of Aluminium Phosphide Bag (60%) Formulation, DACO: 3.4.1 CBI |
| 3409350 | 1999, Flammability of Aluminium Phosphide Bag 60% Formulation, DACO: 3.5.11 |
| 3409351 | 1999, Explodability of Aluminium Phosphide Bag 60% Formulation, DACO: 3.5.12 |
| 3409352 | 1999, Oxidation Property of Aluminium Phosphide Bag (60%) Formulation, DACO: 3.5.8 |
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| 3409354 | 2020, Accelerated Storage Stability and Corrosion Characteristics of Aluminum Phosphide 60% Bag, DACO: 3.5.1,3.5.10,3.5.14,3.5.2,3.5.3,3.5.7 |
| 3409355 | 2021, Discussion of Formation of Impurities of Aluminium Phosphide 60% Bag Formulation, DACO: 3.2.3 CBI |
| 3409356 | 2021, Bulk Density of Aluminium Phosphide 60% Bag Formulation, DACO: 3.5.6 |
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| 3538354 | 2001, Bulk Density of Aluminum Phosphide 60% Bags, DACO: 3.5.6 |
| 3538353 | 2023, Response to Notice of Deficiencies for Weevil-Cide Gas Bags, containing aluminum phosphide, Submission Number: 2022-6117, DACO: 10.2,3.2.1,3.3.1,3.5.6 CBI |
| 3538355 | 2022, ICB01-P, ICB01-T, ICB03 and ICG01: Rate of Phosphine Release From Different Metallic Phosphide Products, DACO: 10.2 |

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