

Evaluation Report for Category B, Subcategory 2.1, 2.3, 2.4, 2.5 Application

Application Number: 2020-6050
Application: New End-use Product (Product Chemistry) – Guarantee; Identity of Formulants; Proportion of Formulants; Formulation Type
Product: Captan 480 SC Fungicide
Registration Number: 34551
Active ingredient (a.i.): Captan
PMRA Document Number: 3361647

Purpose of Application

The purpose of the application was to register a new end-use product, Captan 480 SC Fungicide, to control or suppress certain diseases on labelled orchard crops, grapes, vegetable crops, berry crops, rhubarb, ginseng, ornamental crops and turf.

Chemistry Assessment

Captan 480 SC Fungicide is formulated as a suspension containing captan at a concentration of 482 g/L. This end-use product has a density of 1.180-1.240 g/mL and pH of 4.83. The required chemistry data for Captan 480 SC Fungicide have been provided, reviewed and found to be acceptable.

Health Assessments

Captan 480 SC Fungicide was of low acute toxicity via the oral, dermal, and inhalation routes. It was minimally irritating to the eye and skin and is considered to be a skin sensitizer.

The use of Captan 480 SC Fungicide to control various fungal pests on labelled crops and uses does not fit within the registered use pattern of captan since Captan 480 SC Fungicide has a new formulation type. The product is formulated as a suspension concentrate, which required an updated mixer/loader/applicator quantitative risk assessment. No health risks of concern were identified for mixers, loaders and applicators, provided that workers wear the recommended personal protective equipment and use the recommended engineering controls. For postapplication workers, the new liquid formulation will not affect exposure and the use pattern fits within the registered use pattern of captan and is not expected to exceed the current exposure to registered uses. Previous quantitative postapplication worker exposure assessments are considered adequate to cover potential risks associated with the use of Captan 480 SC Fungicide. No health risks of concern were identified for postapplication workers provided that workers respect the restricted-entry intervals.

No health risks of concern for workers handling Captan 480 SC Fungicide are expected when label directions, precautions and instructions are followed.

No new residue data for captan were submitted to support the registration of Captan 480 SC Fungicide. Previously reviewed residue data from field trials conducted in/on labelled crops were re-assessed in the framework of this application. In addition, processing studies in treated crops were re-assessed to determine the potential for concentration of residues of captan into processed commodities.

Based on this assessment, residues of captan 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 captan is not expected to increase with the registration of Captan 480 SC Fungicide and will not pose health risks of concern to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

The uses on the Captan 480 SC Fungicide label are within the currently registered use pattern of the active ingredient captan. Therefore, no additional risk is expected when Captan 480 SC Fungicide is used in accordance with the label, which includes statements to mitigate risks to the environment.

Value Assessment

The formulation of Captan 480 SC Fungicide was compared to that of the applicant-cited precedent product. Based on this comparison, it was concluded that these products are expected to perform similarly, both in terms of efficacy and crop tolerance. Therefore, all uses and claims included in the registration of the precedent product are acceptable for Captan 480 SC Fungicide.

The availability of Captan 480 SC Fungicide will provide Canadian growers with an additional product to manage common and economically important diseases on several crops and use sites, including orchard crops, grape, vegetable crops, berry crops, rhubarb, ginseng, ornamental crops, and turf.

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 Captan 480 SC Fungicide.

References

PMRA Document Number	Reference
3185105	2013, Captan Gold 4L Product Chemistry, Part A, DACO: 3.1, 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.2, 3.2.1, 3.2.2, 3.2.3, 3.3.1
3185106	2004, Storage Stability and Corrosion Characteristics, DACO: 3.5.10, 3.5.14
3185107	2013, Captan GOLD 4L Waiver Request for Physical and Chemical Properties, DACO: 3.5.12
3185108	2007, Development and Validation of an Analytical Method for the Determination of Captan in the Formulation Captan GOLD 4L, DACO: 3.4.1
3185109	2013, Physical and Chemical Characteristics of Captan Gold, DACO: 3.5, 3.5.1, 3.5.11, 3.5.13, 3.5.2, 3.5.3, 3.5.6, 3.5.7, 3.5.8, 3.5.9
3185116	2020, Formulation Type and Container Material Description, DACO: 3.5.4, 3.5.5
3185110	2000, Acute Inhalation Toxicity Study in Rats - Limit Test, DACO: 4.6.3
3185111	2000, Acute Oral Toxicity Study in Rats , DACO: 4.6.1
3185112	2000, Acute Dermal Toxicity Study in Rats , DACO: 4.6.2
3185113	2000, Primary Eye Irritation Study in Rabbits, DACO: 4.6.4
3185114	2000, Primary Skin Irritation Study in Rabbits, DACO: 4.6.5
3185115	2020, DACO 4.6.6 Waiver, DACO 4.6.6

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