

Evaluation Report for Category B, Subcategory 3.12 Application

Application Number: 2023-6076
Application: Changes to Product Labels-New Site or Host
Applicant: ISK Biosciences Corp.
Product: Insight 339SC Herbicide
Registration Number: 34234
Active ingredient (a.i.): Tiafenacil
PMRA Document Number : 3649465

Purpose of Application

The purpose of this application was amend the label of Insight 339SC Herbicide to add durum and winter wheat.

Health Assessments

The addition of durum and winter wheat to the label of Insight 339SC Herbicide, which is currently registered for use on spring wheat as a nonselective burndown herbicide, can be supported from an occupational exposure perspective. Mixer/loader/applicator and postapplication worker exposures to tiafenacil are not expected to exceed that of the registered use and previously conducted risk assessments are adequate to cover the uses on durum and winter wheat. No health risks of concern are expected, provided that workers wear the appropriate personal protective equipment and follow all label directions for use.

Previously reviewed residue data for tiafenacil from field trials conducted in/on wheat were reassessed in the framework of this application. In addition, a processing study with tiafenacil in treated wheat was also reassessed to determine the potential for concentration of residues of tiafenacil into processed commodities. Also, previously reviewed crop rotational data were reassessed in support of planting winter wheat and durum wheat immediately after application of Insight 339SC Herbicide.

Dietary risks from exposure to residues of tiafenacil in wheat at the established maximum residue limits (MRLs) were shown to be acceptable for the general population and all subpopulations, including infants, children, adults and seniors. Thus the foods that contain these residues are considered safe to eat.

A toxicology risk assessment was not required for this application.

Chemistry and Environmental Assessments

Chemistry and environmental assessments were not required for this application.

Value Assessment

The addition of winter and durum wheat as host crops on the Insight 339SC Herbicide label provides growers with another tool for weed control in a wider array of cereal crops. Amending the rotational cropping claims to allow planting of either winter or durum wheat immediately after an application of Insight 339SC Herbicide broadens the rotational cropping options for growers.

Value information submitted for review consisted of data from field trials conducted in Canada and the U.S. between 2019 and 2022. The provided trial data demonstrate that a pre-plant or pre-emergent application of Insight 339SC Herbicide at currently labelled rates would not be expected to cause unacceptable injury to either winter wheat or durum wheat. Further, the trial data demonstrate that a rotational cropping interval of zero days after application of Insight 339SC Herbicide at currently labelled rates would not be expected to cause unacceptable injury to either wheat crop.

Based on the weight of available evidence, amending the Insight 339SC Herbicide label to include 1) a pre-plant or pre-emergent application of Insight 339SC Herbicide and 2) a rotational cropping interval of zero days after application, at currently labelled rates to both winter and durum wheat, is considered to have acceptable value.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to support the addition of durum and winter wheat to the label of Insight 339SC Herbicide.

**PMRA
Document
Number**

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3517727 2023, Value Summary for Insight 339SC Herbicide, DACO: 10.1, 10.2, 10.2.1, 10.2.2, 10.2.3, 10.2.3.2(B), 10.2.3.3(B), 10.2.3.4(B), 10.2.4, 10.3, 10.3.1, 10.3.2, 10.3.2(A), 10.3.2(B), 10.3.3, 10.4, 10.5, 10.5.1, 10.5.2, 10.5.3, 10.5.4, 10.5.5.

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