



## Evaluation Report for Category B, Subcategory 3.12 Application

**Application Number:** 2021-5012  
**Application:** Changes to Product Labels-New Site or Host  
**Product:** ZIDUA SC  
**Registration Number:** 32542  
**Active ingredient (a.i.):** Pyroxasulfone  
**PMRA Document Number:** 3398104

### Purpose of Application

The purpose of this submission was to include dry field peas and chickpeas as new crops for the fall application for ZIDUA SC, either alone, or in a tank-mix with glyphosate, and to add a statement restricting the use of products that contain flumioxazin during applications in the spring.

### Chemistry Assessment

A chemistry assessment was not required for this application.

### Health Assessments

The use of ZIDUA SC, alone or in a tank mix with glyphosate, for a fall/winter application (post-harvest) application in chickpeas and dry field peas, being planted the following spring, is not expected to result in potential occupational or bystander exposures more than the registered uses of pyroxasulfone. No risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

No new residue data for pyroxasulfone were submitted or required to support the addition of a fall application to dry peas and dry chickpeas prior to planting the following spring on the ZIDUA SC label. Previously reviewed residue data from field trials conducted in/on dry peas were reassessed in the framework of the current submission and it was confirmed that the use of ZIDUA SC on dry peas and dry chickpeas is not expected to result in an increase in the magnitude of pyroxasulfone residues above the established maximum residue limit. Therefore, the fall application of ZIDUA SC on dry peas and/or dry chickpeas will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

A toxicology assessment was not required for this application.

## **Environmental Assessment**

The use of ZIDUA SC to expand late fall applications to include field peas and chickpeas falls within the currently registered use pattern. The label expansion of ZIDUA SC to include late fall applications to field peas and chickpeas is acceptable from the perspective of environmental risk when used in accordance with label directions.

## **Value Assessment**

The registration of a fall application of ZIDUA SC prior to planting field pea and chickpea the following spring provides growers with a larger application window that can reduce the workload pressures the following spring. Furthermore, the winter snowfall and melt helps ensure the herbicide moves into the soil, which may help with improving the consistency of weed control.

Value information submitted for review consisted of scientific rationales. The provided value information demonstrated that a fall application of ZIDUA SC at 90 or 120 g ai/ha would be expected to provide early-season suppression of labelled weeds the following spring, whilst not resulting in unacceptable field pea or chickpea tolerance concerns.

Based on the weight of available evidence, amending the ZIDUA SC registration to include a fall application for field pea and chickpea at a rate range of 180-240 mL/ha (i.e., 90-120 g ai/ha) alone for residual pre-emergence suppression of currently labelled weeds the following spring or in combination with glyphosate at 450-900 g ae/ha for the additional control of emerged weeds at the time of application is considered to have acceptable value.

## **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found it sufficient to support the amendments to the label of ZIDUA SC.

## References

<b>PMRA Document Number</b>	<b>Reference</b>
3269320	2021, Use Site Description ZIDUA SC, DACO: 5.2
3269318	2021, ZIDUA SC Herbicide- Application to include, DACO: 10.1, 10.2, 10.2.2, 10.2.3, 10.3, 10.3.3, 10.4, 10.5

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