



Evaluation Report for Category B, Subcategory 3.11, 3.12, 3.4, 3.5 Application

Application Number: 2021-5610
Application: Changes to Product Label – Pew Pests, New Site (or Host),
Application Method, and Rotational Crops/Plantback Interval
Product: Callisto 480SC Herbicide
Registration Number: 27833
Active ingredient (a.i.): Mesotrione
PMRA Document Number : 3405833

Purpose of Application

The purpose of this application was to amend the registration of Callisto 480SC Herbicide to add a new pest (volunteer canola in field corn), expand the use on field corn to Manitoba and Southern Alberta (irrigated fields only) and add new rotational crops, including canola, oats, barley, field peas, and sugar beets.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A toxicology assessment was not required for this application.

The occupational or bystander exposures and risks from the addition of the control of volunteer canola in late post-emergent field corn to the Callisto 480SC Herbicide label are not expected to increase relative to the registered use of mesotrione. No risks of concern are expected from the use of Callisto 480SC Herbicide, provided that workers follow the label directions and wear the personal protective equipment identified on the label.

No new residue data were submitted or are required to support the expansion of Callisto 480SC Herbicide for use on field corn in Manitoba and Southern Alberta, including the addition of rotational crops and updates to the minimum re-cropping intervals based on different geographical locations. Previously reviewed residue data for mesotrione from field trials and a processing study conducted in/on field corn, in addition to field accumulation studies were re-assessed in the framework of this application. No health risks of concern have been identified for any segment of the population including infants, children, adults and seniors. Existing maximum residue limits (MRLs) are acceptable to cover the labelled uses.

Environmental Assessment

The environmental risks associated with the use of Callisto 480SC Herbicide as a late post-

emergent treatment on field corn in Manitoba and Southern Alberta (irrigated fields only) are acceptable when used according to the label directions.

Value Assessment

The expansion of the Callisto 480SC Herbicide label provides corn growers in Manitoba and Alberta (irrigated land only) an option to manage volunteer canola. Inclusion of more rotational crops on the label provides users more flexibility to arrange crops in the following year after an application of Callisto 480SC Herbicide in their cropping systems.

Value information available for review consisted of scientific rationales and data from field trials, which were conducted in Manitoba and Alberta. This information collectively demonstrated that (1) the application of Callisto 480SC Herbicide in tank mix with Aatrex Liquid 480 Herbicide as per the label instructions provided acceptable control of volunteer canola in Manitoba and Southern Alberta (irrigated land only) and (2) canola, oat, barley, field pea, spring wheat, potato, soybean, and sugar beets can be safely planted 10 or 11 months after an application of Callisto 480SC Herbicide in Eastern Canada and/or Manitoba and Southern Alberta (irrigated land only). Field corn as a rotational crop with an 11-month re-cropping interval in Manitoba and Southern Alberta (irrigated land only) is also acceptable since it is registered as a host as well as rotational crop with a 10-month re-cropping interval for Callisto 480SC Herbicide at up to 0.3 L/ha.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to support the amendment of Callisto 480SC Herbicide.

References

PMRA

Document

Number	Reference
3278795	2021, Value summary for Callisto 480SC in field corn post-emergence, DACO: 10.1
3278798	2020, Initiate mesotrione recrop (year 1) for plant back in year 2 (2020) in Manitoba and Southern Alberta (irrigate acres only), DACO: 10.2.3.3
3278799	2020, Initiate mesotrione recrop (year 1) for plant back in year 2 (2020) in Manitoba and Southern Alberta (irrigate acres only), DACO: 10.2.3.3
3278800	2020, Initiate mesotrione recrop (year 1) for plant back in year 2 (2020) in Manitoba and Southern Alberta (irrigate acres only), DACO: 10.2.3.3
3278801	2019, Evaluate the efficacy of Callisto in field corn for control of volunteer canola, DACO: 10.2.3.3
3278802	2019, Evaluate the efficacy of Callisto in field corn for control of volunteer canola, DACO: 10.2.3.3
3278803	2020, Initiate Mesotrione recrop (year 1) for plant back in year 2 (2020) in Manitoba and Southern Alberta (irrigate acres only), DACO: 10.2.3.3

- 3278804 2020, Initiate Mesotrione recrop (year 1) for plant back in year 2 (2020) in Manitoba and Southern Alberta (irrigate acres only), DACO: 10.2.3.3
- 3278805 2019, Evaluate the efficacy of Callisto in field corn for control of volunteer canola, DACO: 10.2.3.3
- 3278806 2019, Evaluate the efficacy of Callisto in field corn for control of volunteer canola, DACO: 10.2.3.3

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