



Evaluation Report for Category B, Subcategory 3.5 Application

Application Number: 2018-3833
Application: Changes to Product Labels-Rotational Crops\Plantback Interval
Product: Authority Supreme Herbicide
Registration Number: 32562
Active ingredients (a.i.): pyroxasulfone, sulfentrazone
PMRA Document Number : 3044799

Purpose of Application

The purpose of this application was to amend the registration of Authority Supreme Herbicide to include barley, canola, mustard, oats, lentils and sugarbeets as rotational crops, to update the soil restrictions on the label, and to update the tank mixing section of the label.

Health Assessments

New residue data for pyroxasulfone and sulfentrazone were not submitted to support the amendments to the label of Authority Supreme Herbicide. As such, previously reviewed crop rotational data for pyroxasulfone and sulfentrazone were re-assessed in the context of this submission and are adequate to support the addition of the following rotational crops: barley, canola, mustard and oats with a plant-back interval (PBI) of 12 months; lentils with a PBI of 24 months; and sugarbeets with a PBI of 36 months. No health risks of concern for acute or chronic dietary exposure (food and drinking water) are expected for any segment of the population, including infants, children, adults and seniors.

Toxicology and occupational exposure assessments were not required for this application.

Value Assessment

Expansion of the use pattern to include barley, canola, mustard, oats, lentils and sugarbeets as rotational crops provides growers with greater flexibility in their rotational cropping options. Updates to the soil restrictions and tank mixing sections of the label provide additional information when using Authority Supreme Herbicide.

Value information, consisting of field trial data and extrapolations from precedent products, demonstrated that barley, canola, mustard and oats can be safely planted after 12 months, lentils can be safely plants after 24 months and sugarbeets can be safely planted after 36 months as per the Authority Supreme Herbicide label instructions.

Chemistry and Environmental Assessments

Chemistry and environmental assessments were not required for this application.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found it sufficient to support barley, canola, mustard, oats, lentils and sugarbeets as rotational crops, to update the soil restrictions on the label, and to update the tank mixing section of the label.

References

PMRA

Document No.	Reference
2911391	2018, Authority Supreme Herbicide (PCP No. 32562): Value Summary - Rotational Crop Recommendations, DACO: 10.1,10.2.1,10.2.2,10.3.2,10.3.3,10.4,10.5.1,10.5.2,10.5.3,10.5.4,10.5.5
2911392	2018, Value Summary Data Table - Authority Supreme - Add rotational crop recommendations, DACO: 10.3.1
2911393	2016, Pyroxasulfone/sulfentrazone (Authority Supreme) 12 month recrop setup, DACO: 10.3.3
2911394	2014, Pyroxasulfone recrop trial. 2013 setup and 2014 recrop to canola, mustard oats and barley, DACO: 10.3.3
2911395	2016, Pyroxasulfone/sulfentrazone (Authority Supreme) 12 month recrop setup, DACO: 10.3.3
2911396	2017, Authority Supreme 12 month recrop to canola, lentil, oats and sugar beets. YEAR 2, DACO: 10.3.3
2911397	2017, Authority Supreme 12 month recrop to canola, lentil and sugar beets. YEAR 2 of 2, DACO: 10.3.3
2911398	2008, Kumiai Plant Back, DACO: 10.3.3
2911399	2015, Pyroxasulfone recrop trial. 2014 setup and 2015 recrop to canola, mustard, oats and barley, DACO: 10.3.3
2911400	2014, Pyroxasulfone recrop trial. 2013 setup and 2014 recrop to canola, mustard oats and barley, DACO: 10.3.3
2911401	2015, Pyroxasulfone recrop trial. 2014 setup and 2015 recrop to canola, mustard, oats, barley and wheat, DACO: 10.3.3
2911402	2015, Pyroxasulfone recrop trial. 2014 setup and 2015 recrop to canola, mustard, oats and barley, DACO: 10.3.3
2911403	Szmigielski, A.M., Johnson, E.N. and Schoenau, J.J., 2014, A bioassay evaluation of pyroxasulfone behavior in prairie soils, DACO: 10.6

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