

Evaluation Report for Category L, Subcategory 1.2 Application

Application Number: 2018-2501
Application: Application subject to the Protection of Proprietary Interests in Pesticide Data Policy
Product: Judo Herbicide
Registration Number: 33949
Active ingredients (a.i.): Imazethapyr and Imazamox
PMRA Document Number: 3085711

Purpose of Application

The purpose of this application was to register Judo Herbicide, containing imazamox and imazethapyr, for control of grasses and broadleaf weeds in a variety of crops, based on a precedent product.

Chemistry Assessment

Judo Herbicide is formulated as water dispersible granules containing imazamox at a concentration of 35% and imazethapyr at a concentration of 35%. This end-use product has a density of 0.59 – 0.61 g/mL and pH of 3.0. The required chemistry data for Judo Herbicide have been provided, reviewed and found to be acceptable.

Health Assessments

Judo Herbicide is of low acute oral, dermal and inhalation toxicity. It is moderately irritating to the eye and slightly irritating to the skin of the rabbit. It is not a dermal sensitizer.

The use pattern of Judo Herbicide was compared to the precedent product. The potential exposure for mixers, loaders, applicators and postapplication workers is not expected to exceed the exposure to the previously registered product with these active ingredients. No health concerns are expected for workers and bystanders when label directions, precautions and restrictions are followed.

No new residue data for imazamox and imazethapyr were submitted, or required to support the registration of Judo Herbicide under the Protection of Proprietary Interest in Pesticide Data Policy.

The use directions on the Judo Herbicide label, including the target crops, method (ground), rates and timing of application, geographic restrictions, pre-harvest intervals, feeding restrictions, and crop rotation restrictions are comparable to the precedent end-use product.

The formulation components of Judo Herbicide are not expected to significantly impact the magnitude of imazamox and imazethapyr residues in/on treated commodities.

Based on this assessment, residues are not expected to increase and will be covered under the maximum residue limits (MRLs) previously established for imazamox and imazethapyr (<https://pr-rp.hc-sc.gc.ca/mrl-lrm/index-eng.php>). Consequently, dietary exposure to residues of imazamox and imazethapyr is not expected to increase with the registration of Judo Herbicide and will not pose health risks of concern to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

The uses of Judo Herbicide are within the registered use pattern of the active ingredients, imazethapyr and imazamox, and therefore, no additional risk is expected from the use of Judo Herbicide. The label includes the required environmental precautions and hazards statements, including the buffer zones information, which adequately mitigates risks to the environment.

Value Assessment

The availability of Judo Herbicide provides farmers another option to manage both grasses and broadleaf weeds in an array of crops.

The formulation of Judo Herbicide was compared to the formulation of the cited precedent product. It was concluded that any differences in the formulations are unlikely to result in any significant impact on product performance, in terms of both efficacy and crop tolerance. Value information from field research trials was also submitted for review. The trial information supported the conclusion from the formulation comparison.

Based on the weight of evidence, the agronomic equivalence between Judo Herbicide and the cited precedent product can be established. Therefore, all labelled uses and claims found on the precedent product label are supported for inclusion on the Judo Herbicide label from a value perspective.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to register Judo Herbicide.

References

PMRA

Document

Number	Reference
2892973	2018, Judo Herbicide Manufacturing Process, DACO: 3.2.1,3.2.2,3.2.3 CBI
2892981	2018, Imazamox 35% + Imazethapyr 35% WDG: Validation of the Analytical method for the Determination of the Active Ingredients Content, DACO: 3.4.1,3.4.2 CBI
2892960	2018, DACO 3 Extras: Judo Herbicide Parent, DACO: 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.5.13, 3.5.15, 3.5.4, 3.5.5
2892980	2017, Imazamox 35% + Imazethapyr 35% WDG: Determination of Accelerated Storage Stability and Corrosion Characteristics, DACO: 3.5.1, 3.5.11, 3.5.2, 3.5.3, 3.5.6, 3.5.7, 3.7 CBI
2892982	2017, Imazamox 35% + Imazethapyr 35% WDG: Determination of Accelerated Storage Stability and Corrosion Characteristics, DACO: 3.5.10, 3.5.14 CBI
2892983	2018, Imazamox 35% + Imazethapyr 35% WDG: Determination of Explosive Properties, DACO: 3.5.12
2892984	2018, Imazamox 35% + Imazethapyr 35% WDG: Determination of Oxidizing Properties, DACO: 3.5.8
3077787	2020, Physico-Chemical Characterization of Imazamox 35%+Imazethapyr 35% WG, DACO: 3.5.10,3.5.14
2892962	2016, Efficacy, phytotoxicity, and yield protocol for Sharda Cropchem Ltd. generic herbicides on Clearfield Canola, DACO: 10.2.3.3.
2892963	2016, Efficacy, phytotoxicity, and yield protocol for Sharda Cropchem Ltd. generic herbicides on Clearfield lentils, DACO: 10.2.3.3.
2892964	2016, Efficacy, phytotoxicity, and yield protocol for Sharda Cropchem Ltd. generic herbicides on Clearfield canola, DACO: 10.2.3.3.
2892965	2016, Efficacy, phytotoxicity, and yield protocol for Sharda Cropchem Ltd. generic herbicides on Clearfield canola, DACO: 10.2.3.3.
2892966	2016, Efficacy, phytotoxicity, and yield protocol for Sharda Cropchem Ltd. generic herbicides on Clearfield lentils, DACO: 10.2.3.3.
2892967	2016, Efficacy, phytotoxicity, and yield for Sharda Cropchem generic herbicides on field peas, DACO: 10.2.3.3.
2892968	2016, Efficacy, phytotoxicity, and yield protocol for Sharda Cropchem Ltd. generic herbicides on Clearfield Canola, DACO: 10.2.3.3.
2892969	2016, Efficacy, phytotoxicity, and yield protocol for Sharda Cropchem Ltd. generic herbicides on Clearfield lentils, DACO: 10.2.3.3.
2892970	2016, Efficacy, phytotoxicity, and yield of Sharda Herbicides on field peas with the precedent products currently registered in Canada, DACO: 10.2.3.3
2892962	2016, Efficacy, phytotoxicity, and yield protocol for Sharda Cropchem Ltd. generic herbicides on Clearfield Canola, DACO: 10.2.3.3.

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