Health Canada Santé Canada

Evaluation Report for Category B, Subcategory 2.6 Application

Application Number: 2019-5385
Application: Changes to Product Labels - New EP Product Chemistry – New Combination of Technical Grade Active Ingredients
Product: TriActor EZ Herbicide
Registration Number: 34424
Active ingredients (a.i.): Metribuzin, Flumioxazin, Imazethapyr
PMRA Document Number: 3309225

Purpose of Application

The purpose of this application is to register a new domestic class end-use product, TriActor EZ Herbicide, which contains a new combination of technical grade active ingredients, for use as a soil treatment on pre-seed, pre-emergent or burndown applications to control or supress certain weeds on soybeans.

Chemistry Assessment

TriActor EZ Herbicide is formulated as a suspension containing metribuzin at a concentration of 360 g/L, flumioxazin at a concentration of 80 g/L, and imazethapyr (present as ammonium salt) at a concentration of 68 g/L. This end-use product has a density of 1.13 g/mL and pH of 5.31. The required chemistry data for TriActor EZ Herbicide have been provided, reviewed and found to be acceptable.

Health Assessments

TriActor EZ Herbicide was of slight toxicity via the oral route. It was of low toxicity via dermal and inhalation routes. It was non-irritating to the eyes and to the skin. It was tested positive for skin sensitization.

The registration of TriActor EZ Herbicide, is not expected to result in an increase in potential occupational or bystander exposure over that from the registered uses of metribuzin, flumioxazin and imazethapyr. 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 imazethapyr, flumioxazin and metribuzin in soybeans were submitted to register TriActor EZ Herbicide. Previously reviewed residue data from field trials conducted in/on soybeans were reassessed in the framework of this application.

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The resulting residues on soybeans from the use of TriActor EZ Herbicide are expected to be covered under the maximum residue limits (MRLs) currently established for the active ingredients in/on soybeans. Residues in soybeans at the established MRLs will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

The registration of TriActor EZ Herbicide for the control and/or suppression of certain weeds in pre-seed, pre-emergent, or burndown applications for soybeans is acceptable from the perspective of environmental risk when used in accordance with label directions.

Value Assessment

The registration of TriActor EZ Herbicide provides users an alternative option for burndown control of grasses and broadleaf weeds with soil residual activity in soybeans. TriActor EZ Herbicide, which is co-formulated with three active ingredients with different modes of action and with control of overlapping weed spectra, provides users a valuable tool that may help to manage resistant weed biotypes.

Value information submitted for review consisted of precedent registrations and data from field trials conducted in Quebec and Ontario in 2017 and 2018. This information collectively demonstrated that the application of TriActor EZ Herbicide, as per the label instructions, provided acceptable control of the listed weeds and did not cause unacceptable injury to soybean. Rotational crops are supported based on the precedent registrations.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to support the registration of TriActor EZ Herbicide.

References

PMRA Document Number	Reference
3036133	2019, Summary of product chemistry_TriActor EZ _Final1, DACO: 3.0,3.1,3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.2, 3.2.1, 3.2.2, 3.2.3, 3.5.1, 3.5.12, 3.5.13, 3.5.15, 3.5.2, 3.5.3, 3.5.4, 3.5.5, 3.5.8, 3.5.9
3036134	2019, SS& CC _TriActor EZ_Final, DACO: 3.5.10, 3.5.14 CBI
3036135	2019, Enforcement Analytical Method for TriActor EZ, DACO: 3.4.1 CBI
3178838	2020, DACO 3.5.11 Flammability, DACO: 3.5.11 CBI
3178839	2015, Final Report for: Physical and Chemical Characteristics of NUP-15008, DACO: 3.5.6, 3.5.7 CBI
3300554	2021, TriActor EZ Herbicide: Product Identification and Selected Chemical and Physical Properties (updated), DACO: 3.2.2 CBI
3308060	2022, 220105 Summary of Product Chemistry_TriActor EZ_Updated, DACO: 3.2.2 CBI
3036137	2019, Tox Summary for NUP 15008-TriActor EZ, DACO: 4.1
3036138	2019, Acute Oral Tox_TriActor EZ, DACO: 4.6.1
3036139	2019, Acute Dermal Toxicity_TriActor EZ, DACO: 4.6.2
3036140	2019, Acute Inhalation Toxicity_TriActor EZ, DACO: 4.6.3
3036141	2019, Primary Eye Irritation_TriActor EZ, DACO: 4.6.4
3036142	2019, Primary Skin Irritation_TriActor EZ, DACO: 4.6.5
3036143	2019, Local Lymph Node Assay_TriActor EZ, DACO: 4.6.6
3105338	2020, DACO 10, TriActor EZ, DACO: 10.1, 10.2.3, 10.2.3.1, 10.2.3.3, 10.3.1

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