



Evaluation Report for Category B, Subcategory 2.1 Application

Application Number: 2006-7854
Application: New/Changes EP Product Chemistry-Guarantee
Product: Release XRT Herbicide
Registration Number: 28941
Active ingredients (a.i.): Triclopyr [TPR]
PMRA Document Number: 1565234

Purpose of Application

The objective of this application is to register a new commercial product, Release XRT Herbicide. Release XRT Herbicide is a repack of Garlon XRT Herbicide (Appl. No. 2006-7858), proposed for different uses.

Chemistry Assessment

Garlon XRT Herbicide is a solution containing triclopyr at a nominal concentration of 755 g/L. This product has a density of 1.2572 g/mL and pH of 4.49. The product chemistry database is complete with the exception of the storage stability and corrosion characteristics data for Garlon XRT Herbicide and its associated repacks.

Health Assessments

The Release XRT Herbicide review is based on toxicological data submitted for Garlon XRT Herbicide. Since Release XRT Herbicide is a repack of Garlon XRT Herbicide and the two products are identical, the acute toxicity studies submitted for Garlon XRT Herbicide are referenced for the evaluation of Release XRT Herbicide. No additional toxicological data are required.

The proposed product, Release XRT Herbicide, fits within the existing use pattern for triclopyr. The proposed active ingredient application rates, timing and methods of application are similar to currently registered products containing triclopyr (Reg. No. 21053 and 28434). As such, the requested change in formulations and guarantee are not expected to result in an increase in occupational exposure.

Based on the product specifications, the new formulants is not expected have an impact on the magnitude of the residues of triclopyr when Release XRT Herbicide is used according to the label. Thus, triclopyr residues are not expected to pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

Release XRT Herbicide is based on a more dilute precedent product, but the application rates of the active ingredient have not changed since the amount of product is scaled appropriately to account for the differences in concentration. Further, the proposed use scenario is already registered for the precedent product, hence the use of Release XRT Herbicide is not expected to increase the release of triclopyr to the environment.

Value Assessment

Data submitted to support the registration of Garlon XRT under application number 2006-7858 are applicable to Release XRT Herbicide. Data from 32 trials conducted in Canada (8 trials in 7 locations) and the US (24 trials in 10 locations) over a 4-year period (2003-2006) were submitted to support the registration of Garlon XRT Herbicide. Efficacy (in 32 trials) and crop safety (in 12 trials) of Garlon XRT Herbicide were directly compared to those of the registered Garlon 4 Herbicide (Reg. No. 21053).

Control of red maple, common ragweed, lamb's-quarters, pignut hickory, loblolly pine, balsam poplar, aspen poplar, black cherry, southern red oak, willow oak, prairie rose, black berry, curled dock, dandelion, and winged elm were visually assessed from 1 to 3 times during the growing season. Control of these weeds following the application of Garlon XRT Herbicide was comparable to that for Garlon 4 Herbicide.

The tolerance of 2 conifer species and 12 grass species to Garlon XRT Herbicide was visually assessed from 1 to 4 times during the growing season. For the tested conifer and grass species, crop injury and leaf chlorosis following the application of Garlon XRT Herbicide was comparable to that for Garlon 4 Herbicide. Data for dry matter yield collected for bromegrass, fescue, and timothy in 1 trial further supported the crop tolerance claim.

The performance of Garlon XRT Herbicide was concluded to be similar to that of Garlon 4 Herbicide. It was, therefore, concluded that Release XRT Herbicide was similar to that of Release Herbicide (Reg. No. 22093).

Conclusion

The Agency has completed an assessment of available information for Release XRT Herbicide and has found it sufficient to allow for full registration, with registration being contingent upon fulfilling the following data requirements:

- One-year storage stability data, DACO: 3.5.10
- Corrosion characteristics data, DACO: 3.5.14

References

A. List of Studies/Information Submitted by Registrant

Chemistry Assessment

<u>PMRA #</u>	<u>Reference</u>
1341880	2005, Group A - Product Identity, Composition, and Analysis for GF-1665 and GF-1371; an End Use Product Containing Triclopyr Butoxyethyl Ester, NAFST-05-117, MRID: N/A, DACO: 3.2.1, 3.2.2, 3.2.3, 3.3.1, 3.4.1, 3.4.2
1341881	2005, Determination of Color, Physical State, Odor, Oxidizing and Reducing Action, Flammability, Explodability, pH, Viscosity and Density of GF-1665, an End Use Product Containing Triclopyr Butoxyethyl Ester, FAPC053337, MRID: N/A, DACO: 3.5.1, 3.5.11, 3.5.
1341882	2005, Accelerated Storage Stability Study of GF-1665; a Triclopyr Butoxyethyl Ester Emulsifiable Formulation, in Glass for 2 weeks at 54°C, FOR-05-037, MRID: N/A, DACO: 3.5.10
1366701	2007, Product Identification, N/A, MRID: N/A, DACO: 3.1.1, 3.1.2, 3.1.3, 3.1.4
1366702	2007, Corrosion Characteristics, N/A, MRID: N/A, DACO: 3.5.14
1366703	2007, Dielectric Breakdown, N/A, MRID: N/A, DACO: 3.5.15
1387757	2007, Determination of Miscibility of GF-1665, an End-Use Product Containing Triclopyr Butotyl, FAPC073077, MRID: N/A, DACO: 3.5.13
1421643	2005, Analytical Method and Validation for the Determination of Triclopyr Butoxyethyl Ester in GF-1665 and GF-1371 Formulations, N/A, MRID: N/A, DACO: 3.4.1

Health Assessment

<u>PMRA #</u>	<u>Reference</u>
1341883	2005, GF-1665: Acute Oral Toxicity Up and Down Procedure in Rats, 050265, 17111, MRID: N/A, DACO: 4.6.1
1341884	2005, GF-1665: Acute Dermal Toxicity in Rats - Limit Test, 050266, 17112, MRID: N/A, DACO: 4.6.2
1341885	2005, GF-1665: Acute Liquid Aerosol Inhalation Toxicity Study in F344/DUCRL Rats, 051085, MRID: N/A, DACO: 4.6.3

- 1341886 2005, GF-1665: Primary Eye Irritation Study in Rabbits, 050268, 17113, MRID: N/A, DACO: 4.6.4
- 1341887 2005, GF-1665: Primary Skin Irritation Study in Rabbits, 050267, 17114, MRID: N/A, DACO: 4.6.5
- 1341888 2005, GF-1665: Local Lymph Node Assay in BALB/cAnNCrI Mice, 051082, MRID: N/A, DACO: 4.6.6

Value Assessment

<u>PMRA #</u>	<u>Reference</u>
1047048	Garlon 4 formulation project biology review, November 2004. Dow AgroSciences. DACO: 10.1. pp. 31.
1394109	Part 10 - Efficacy and crop tolerance trial reports. Dow AgroSciences. DACO 10.2.3.3 and DACO: 10.3.2. March 18, 2007. pp. 139.

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