

Evaluation Report for Category B, Subcategories 2.1, 2.3, 2.4, 3.1 Application

Application Number: 2022-0742
Application: New End-Use Product Chemistry-Guarantee, Identity and Proportion of Formulants; New Product Label-Application Rate Increase or Decrease
Product: Fiesta WSG Broadleaf Weed Killer for Lawns
Registration Number: #####
Active ingredient (a.i.): Iron (present as ferric sodium EDTA trihydrate)
PMRA Document Number: 3563252

Purpose of Application

The purpose of this application was to register a new domestic-class end-use product, Fiesta WSG Broadleaf Weed Killer for Lawns, for use on lawn turf.

Chemistry Assessment

Fiesta WSG Broadleaf Weed Killer for Lawns is formulated as granules containing iron (present as ferric sodium EDTA trihydrate) at a concentration of 7.88%. This end-use product has a density of 1.01 – 1.02 g/mL and a pH of 4.65 (1% solution). The required chemistry data for Fiesta WSG Broadleaf Weed Killer for Lawns have been provided, reviewed and found to be acceptable.

Health Assessments

The data package in support of Fiesta WSG Broadleaf Weed Killer for Lawns consisted of acute toxicity studies (oral, dermal and inhalation toxicity), irritation testing (dermal and eye), and a dermal sensitization study. Fiesta WSG Broadleaf Weed Killer for Lawns is of low acute oral, dermal and inhalation toxicity, is mildly irritating to the eyes, minimally irritating to the skin, and is not a dermal sensitizer.

Exposure to Fiesta WSG Broadleaf Weed Killer for Lawns may occur when the domestic user is applying the end-use product or entering treated sites, but is not expected to result in health risks of concern when the product is used according to label directions. Precautionary statements on the label aimed at mitigating user exposure are considered acceptable to protect individuals from any potential risk due to domestic use exposure. Bystander exposure is not expected to result in health risks of concern when the product is used according to label directions.

A dietary exposure assessment was not required for this application.

Environmental Assessment

The use pattern for Fiesta WSG Broadleaf Weed Killer for Lawns falls within the current use pattern for ferric sodium ethylenediaminetetraacetic acid (EDTA). Therefore, when used in accordance with the label, the risk to non-target organisms is acceptable.

Value Assessment

Value information was submitted in the form of performance data generated in multiple field and greenhouse trials in which the performance of the Fiesta WSG Broadleaf Weed Killer for Lawns formulation was compared to a registered liquid formulation in which iron is present as the HEDTA chelate. Rationales were provided to extrapolate the efficacy data generated for certain weeds within each rate group to other weeds for which no data were available. The combination of efficacy data and rationales were adequate to support claims to control black medic, slender speedwell, wild (Robert's) geranium, moss, false dandelion (seedlings), dandelion (seedlings), English daisy (seedlings), and white clover seedlings at the rate of 6 g product (0.473 g Fe) delivered in 150 mL solution/m², to control dandelion, English daisy, white clover, false dandelion, bull thistle, common chickweed, narrow-leaved plantain, dove's foot geranium, lawn burweed, and algae at the rate of 8 g product (0.630 g Fe) delivered in 200 mL solution/m², and to suppress broadleaved plantain at the rate of 12 g product (0.946 g Fe) delivered in 300 mL solution/m².

The tolerance of perennial ryegrass was evaluated in greenhouse and field trials, while the tolerance of other turf grasses that included one or more of Kentucky bluegrass, turf-type tall fescue, and fine fescue (creeping red fescue and/or chewings fescue) were evaluated in field trials. The data demonstrated that while turf grasses appear to be somewhat more susceptible to injury following applications of the Fiesta WSG Broadleaf Weed Killer for Lawns formulation as compared to the registered liquid formulation, recovery of initial injury occurs after about 2-3 weeks. The risk of turf injury is mitigated by the labelling requirement to not apply to drought-stressed turf or on high temperature days.

The availability of Fiesta WSG Broadleaf Weed Killer for Lawns serves as an alternative product for use on residential lawns to manage common lawn weeds.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to support the registration of Fiesta WSG Broadleaf Weed Killer for Lawns.

References

PMRA Document Number	Reference
3322004	2020, Final Report for Neudorff Fiesta Efficacy Trial – Project # G20-05, DACO: 10.2.3.2(B)
3322005	2019, Evaluation of Broadleaf Weed Control (Dry Fiesta), DACO: 10.2.3.2(B)
3322006	2021, Final Report for Neudorff Fiesta Efficacy Trial – Project # G21-04, DACO: 10.2.3.2(B)
3322007	2021, Smooth Crabgrass Control Programs with Fiesta®, Fiesta Granular, and Fiesta WSG, DACO: 10.2.3.2(B)
3322008	2021, Final Report for Neudorff Crabgrass Trial – Project # G21-05, DACO: 10.2.3.2(B)
3322009	2019, Final Report for Neudorff Crabgrass Trial – Project # G19-07, DACO: 10.2.3.2(B)
3322010	2019, Final Report for Neudorff Fiesta Safety Trial – Project # G19-06, DACO: 10.3.2(A)
3322011	2021, Final Report for Neudorff Fiesta Safety Trial – Project # G21-03, DACO: 10.3.2(A)
3485080	2023, Binder 4 - Amendment, DACO: 10.1,10.2,10.2.1,10.2.2,10.2.3,10.2.3.1,10.2.3.3,10.2.3.3(B),10.3,10.3.1,10.3.2,10.3.3,10.4, 10.5, 10.5.1,10.5.2,10.5.3,10.5.4,10.5.5
3333002	2021, White Clover Control with Fiesta®, Fiesta Granular, and Fiesta WSG, DACO: 10.2.3.2(B)
3322027	2022, Binder 2, DACO: 4.1,4.2,4.2.1,4.2.2,4.2.4,4.2.5,4.2.6
3322028	2020, Fiesta WSG: Acute Oral Toxicity - Up and Down Procedure in rats, DACO: 4.2.1
3322029	2020, Fiesta WSG: Acute Dermal Toxicity in Rats, DACO: 4.2.2
3322030	2020, Fiesta WSG: Acute Inhalation Toxicity in Rats, DACO: 4.2.3
3322031	2020, Fiesta WSG: Primary Eye Irritation in Rabbits, DACO: 4.2.4
3322032	2020, Fiesta WSG: Primary Skin Irritation in Rabbits, DACO: 4.2.5
3322033	2020, Fiesta WSG: Dermal Sensitization Test in Guinea Pigs - Buehler Method, DACO: 4.2.6
3322034	2022, Binder 3, DACO: 5.1,5.2,5.3,5.4,5.5
3322024	2020, Fiesta WSG: Preliminary Analysis, Active Ingredient Only, DACO: 3.3.1 CBI
3322025	2020, Fiesta WSG Physical and Chemical Characteristics, DACO: 3.5.1,3.5.2, 3.5.3, 3.5.6, 3.5.7 CBI
3322026	2021, Fiesta WSG Storage Stability and Corrosion Characteristics, DACO: 3.5.10, 3.5.14 CBI
3422799	2022, Binder 1, DACO: 3.0,3.1,3.1.1,3.1.2,3.1.3,3.1.4,3.2,3.2.1,3.2.2,3.2.3,3.3.1, 3.4, 3.4.1, 3.4.2,3.5,3.5.1,3.5.10,3.5.11,3.5.12,3.5.13,3.5.14,3.5.15,3.5.2,3.5.3, 3.5.4,3.5.5,3.5.6,3.5.7,3.5.8,3.5.9 CBI

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