

Evaluation Report for Category B, Subcategories 2.1, 2.3, 2.4, 3.1, 3.3, 3.9 Application

Application Number: 2022-1140
Application: New End-Use Product Chemistry-Guarantee, Identity and Proportion of Formulants; New Product Label-Application Rate Increase or Decrease, Application Number or Frequency, and Level of Control
Product: Fiesta Granule Selective Turf Weed Killer
Registration Number: #####
Active ingredient (a.i.): Iron (present as ferric sodium EDTA trihydrate)
PMRA Document Number: 3566154

Purpose of Application

The purpose of this application was to register a new commercial-class end-use product, Fiesta Granule Selective Turf Weed Killer, for use on lawn turf and turf on rights of way, landscaped areas, non-crop areas, golf courses, parks, cemeteries and athletic fields.

Chemistry Assessment

Fiesta Granule Selective Turf Weed Killer is formulated as granules containing iron (present as ferric sodium EDTA trihydrate) at a concentration of 1.82%. This end-use product has a density of 0.66 g/mL and a pH of 6.4 (1% solution). The required chemistry data for Fiesta Granule Selective Turf Weed Killer have been provided, reviewed and found to be acceptable.

Health Assessments

The data package in support of Fiesta Granule Selective Turf Weed Killer consisted of acute toxicity studies (oral, dermal and inhalation toxicity), irritation testing (dermal and eye), and a dermal sensitization study. Fiesta Granule Selective Turf Weed Killer is of low acute oral, dermal and inhalation toxicity, is non-irritating to the eyes and skin, and is not a dermal sensitizer.

Exposure to Fiesta Granule Selective Turf Weed Killer may occur when commercial applicators are applying the end-use product or entering treated sites. Occupational exposure to individuals handling Fiesta Granule Selective Turf Weed Killer is expected to result in acceptable risk when the product is used according to label directions. Precautionary statements on the product label aimed at mitigating worker exposure are considered acceptable to protect individuals from any potential risk due to occupational 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 Granule Selective Turf Weed Killer 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 Granule Selective Turf Weed Killer 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 acceptable to support the following claims: control of dandelion seedlings and suppression of white clover seedlings at the rate of 15 g product/m², control of black medic and dandelion at 25 g product/m², and control of broadleaf plantain, creeping buttercup, white clover, Canada thistle, and pre-emergent control of smooth crabgrass and pre-emergent suppression of large crabgrass at 40 g/m².

The tolerance of perennial ryegrass was evaluated in greenhouse and field trials, while other 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 generally more susceptible to injury following applications of the Fiesta Granule Selective Turf Weed Killer formulation as compared to the registered liquid formulation, recovery of initial injury occurs after about three 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 Granule Selective Turf Weed Killer for use on residential, commercial, industrial and municipal lawns and turf on rights of way, landscaped areas, non-crop areas, golf courses, parks, cemeteries and athletic fields serves as an alternative to other herbicide products registered and available for use on turf in these areas.

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 Granule Selective Turf Weed Killer.

References

PMRA Document Number	Reference
3333002	2021, White Clover Control with Fiesta®, Fiesta Granular, and Fiesta WSG, DACO: 10.2.3.2(B)
3484855	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),10.3,10.3.1,10.3.2,10.3.3,10.4,10.5,10.5.1,10.5.2,10.5.3,1 0.5.4, 10.5.5
3332971	2021, NEU1572H: Accelerated Storage Stability and Corrosion Characteristics, DACO: 3.5.10,3.5.14 CBI
3332972	2021, Neu1572H: Physical and Chemical Characteristics, DACO: 3.5.1,3.5.2, 3.5.3,3.5.6,3.5.7 CBI
3332973	2021, NEU1572H: Acute Oral Toxicity - Up and Down Procedure in rats, DACO: 4.2.1
3332974	2021, NEU1572H: Acute Dermal Toxicity in Rats, DACO: 4.2.2
3332975	2021, NEU1572H: Acute Inhalation Toxicity in Rats, DACO: 4.2.3
3332976	2022, NEU1572H: Primary Eye Irritation in Rabbits, DACO: 4.2.4
3332977	2021, NEU1572H: Primary Skin Irritation in Rabbits, DACO: 4.2.5
3332978	2021, NEU1572H: Dermal Sensitization Test in Guinea Pigs - Buehler Method, DACO: 4.2.6
3422796	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
3002910	2019, Binder #3 Exposure Assessment, DACO: 4.3,4.5.4,4.5.5,5.1,5.2,5.3,5.4,5.5, 5.6,5.7,5.8,5.9
3332984	2022, Binder 3, DACO: 5.1,5.2,5.3,5.4,5.5
3332987	2022, Binder 2, DACO: 4.1,4.2,4.2.1,4.2.2,4.2.4,4.2.5,4.2.6
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)
3322011	2021, Final Report for Neudorff Fiesta Safety Trial– Project # G21-03, DACO: 10.3.2(A)

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