

Evaluation Report for Category B, Subcategories 2.3, 2.4 Application

Application Number: 2017-7712
Application: New EP Product Chemistry-Identity of Formulants
New EP Product Chemistry-Proportion of Formulants
Product: Squadron II
Registration Number: 33382
Active ingredient (a.i.): Metribuzin
PMRA Document Number: 2966363

Purpose of Application

The purpose of this application was to register a new end-use product containing metribuzin, Squadron II, based on a registered precedent product for control of certain grasses and broadleaf weeds.

Chemistry Assessment

Squadron II is formulated as water dispersible granules containing metribuzin at a concentration of 75.0%. This end-use product has a density of 0.5 g/mL and pH of 9.0. The required chemistry data for Squadron II have been provided, reviewed and found to be acceptable.

Health Assessments

Squadron II is of low acute toxicity via the oral, dermal, and inhalation route based on studies in rats. Squadron II is slightly irritating to the skin and mildly irritating to the eye based on studies in rabbits. Squadron II is not a potential dermal sensitizer based on results of a Buehler study in guinea pigs.

The use pattern of Squadron II was compared to that of the registered precedent. The potential occupational or bystander exposure to metribuzin is not expected to exceed the exposure from the previously registered products. No health 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 metribuzin were submitted to support the registration of Squadron II. Previously reviewed residue data from field trials conducted with metribuzin were re-assessed in the framework of this petition.

Residues in/on crop food commodities will be covered by the established maximum residue limits (MRLs) for metribuzin. Consequently, the dietary exposure to residues of this active ingredient is not expected to increase with the registration of Squadron II and will not pose health risks of concern to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

The use pattern for Squadron II falls within the previously registered use pattern. No additional risk to the environment is expected from the registration of this end-use product provided that environmental risk reduction and hazard statements on the label are followed.

Value Assessment

A rationale was provided to support the registration of Squadron II. Based on all available information, an acceptable level of efficacy and crop tolerance is expected when Squadron II is applied per label directions. Squadron II will provide growers with a new option to control grassy and broadleaf weeds in a range of host crops.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found it sufficient to support the registration of Squadron II.

References

PMRA Document Number	Reference
2832548	2016, Physical and Chemical Characteristics of METPG 75, DACO: 3.5.1,3.5.2,3.5.3,3.5.6,3.5.7,3.5.8 CBI
2870317	2006, Storage Stability and Corrosion Characteristics, DACO: 3.4.1,3.5.10,3.5.14 CBI
2870318	2018, Chemistry--squadron-clarification, DACO: 3.5.10,3.5.11,3.5.12,3.5.13,3.5.14,3.5.15,3.5.4,3.5.5,3.5.9
2832551	2004, Metribuzin 75 WG Acute Oral Toxicity Up and Down Procedure in Rats, DACO: 4.6.1
2832552	2004, Metribuzin 75 WG Acute Dermal Toxicity Study Rats - Limit test, DACO: 4.6.2
2832553	2004, Metribuzin 75 WG Acute Inhalation Toxicity Study Rats - Limit test, DACO: 4.6.3
2832554	2004, Metribuzin 75 WG Primary Eye Irritation Study in Rabbits, DACO: 4.6.4
2832555	2004, Metribuzin 75 WG Primary Skin Irritation Study in Rabbits, DACO: 4.6.5
2832556	2004, Metribuzin 75 WG Dermal Sensitization Study in Guinea Pigs, DACO: 4.6.6
2841318	2018, Value-Squadron- -waiver, DACO: 10.1 CBI

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