

Evaluation Report for Category B, Subcategory 2.3, 2.4, 2.5, 2.6, 3.2, 3.3, 3.10, 3.11 Application

Application Number: 2015-6449
Application: B.2.3: New Identity of Formulants
B.2.4: New Proportion of Formulants
B.2.5: New Formulation Type
B.2.6: New Combination of TGAI's
B.3.2: New Application Timing
B.3.3: New Application Number or Frequency
B.3.10: New Tank Mixes
B.3.11: New Pests
Product: BCS-CT-01
Registration Number: 32603
Active ingredients (a.i.): Dicamba
PMRA Document Number (English PDF): 2725916

Purpose of Application

The purpose of this application was to register the end use product BCS-CT-01 containing the active ingredient dicamba at 480 g a.e./L for pre-plant, pre-emergent, and post-emergent control of listed broadleaf weeds in corn for all tillage systems.

Chemistry Assessment

BCS-CT-01 is formulated as a suspension containing dicamba, present as the diglycolamine salt at a nominal concentration of 480 g/L. This end-use product has a density of 1.230-1.270 g/cm³ and pH of 4.8. The required chemistry data for BCS-CT-01 have been provided, reviewed and found to be acceptable.

Health Assessments

BayCamba is of low toxicity to rats via the oral, dermal, and inhalation routes. It is mildly irritating to the eye and is a minimal skin irritant of rabbits. It is not a dermal sensitizer in mice.

The end-use product, BCS-CT-01, for use on field corn (grown for grain, silage or seed) fits within the registered use pattern for dicamba. The potential occupational or bystander exposure is not expected to exceed the current exposure to registered products containing dicamba. No health risks of concern are expected when workers follow label directions and wear revised personal protective equipment on the label.

Previously reviewed residue data from field trials conducted in/on corn were reassessed in the framework of this application. Exposure to residues of dicamba in corn and livestock commodities as a result of the use of BCS-CT-01 will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

BCS-CT-01 will have the same environmental precautions, including spray buffer zones, as currently registered products containing dicamba.

Value Assessment

The supportive value information included data from 26 small plot replicated field trials, which were conducted across various ecozones in Ontario and Quebec in 2015.

The efficacy of BCS-CT-01 applied alone or in tank mix with listed herbicides was determined to be agronomically equivalent to currently registered products. Therefore, all uses and claims found on currently registered product labels are supported for inclusion on the BCS-CT-01 label. All other requested label claims are also supported.

Conclusion

PMRA has reviewed information provided in support of the registration of BCS-CT-01. Based on this review, BCS-CT-01 is acceptable for registration.

References

2641102	2003, On the mode of action of the herbicide AE 0172747, DACO: 10.2.1,6
2641104	2000, (14C)-Isoxaflutole: Metabolism in wheat, DACO: 6,6.3
2641106	1999, Mode of action of the herbicide AE F130360 in combination with the safener AE F122006, DACO: 10.2.1,6
2641107	1999, Metabolism of (triazinyl-2-14C)-AE F115008 in rice Code: AE F115008, DACO: 6,6.3
2641110	1997, Uptake, translocation and degradation of the herbicide AE F115008 in wheat, DACO: 6,6.3

2585462	2015, BCS-CT-01 - PART 3 Chemistry requirements for the registration of a manufacturing concentrate (MA) or an end-use product (EP) for import MRLS, 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 CBI
2585463	2014, Description of materials used to produce DiFlexx, DACO: 3.2.1 CBI
2585464	2014, Formulation process of DiFlexx, DACO: 3.2.2 CBI
2585465	2014, Discussion on the formation of impurities for DiFlexx, DACO: 3.2.3 CBI
2585468	2013, Determination of dicamba and [CBI Removed] in formulations- Assay - HPLC, external standard, DACO: 3.4.1
2585469	2014, Validation of HPLC-method AM021913MF1 - Determination of dicamba and [CBI Removed] in formulations - dicamba + [CBI Removed] SC 506 (480+[CBI Removed] g/L), DACO: 3.4.1
2585470	2014, Physical, chemical and technical properties of dicamba + [CBI Removed] SC 506 (480+[CBI Removed] g/L) - Final report, DACO: 3.5.1,3.5.2,3.5.3,3.5.4,3.5.6,3.5.7,3.5.9
2585471	2014, Storage stability at elevated temperature and corrosion characteristics of dicamba + [CBI Removed] SC 506 (480+[CBI Removed] g/L) - Packaging material: COEX/EVOH - Final report (14 days), DACO: 3.5.10,3.5.14,3.5.5
2585472	2013, Safety-relevant data of dicamba + [CBI Removed] SC 506 (480+[CBI Removed] g/L) - DMB+[CBI Removed] SC 506 (480+[CBI Removed]) G, DACO: 3.5.11,3.5.12
2585473	2014, Miscibility of DiFlexx, DACO: 3.5.13
2585474	2014, Dielectric voltage breakdown of DiFlexx, DACO: 3.5.15
2585477	2014, Oxidation/Reduction: Chemical Incompatibility of DiFlexx, DACO: 3.5.8
2674787	2016, BCS-CT-01 Herbicide - Revised Formulation Process Description, DACO: 3.2,3.2.2 CBI

2585480	2013, BayCamba: Acute oral toxicity up and down procedure in rats, DACO: 4.6.1
2585480	2013, BayCamba: Acute dermal toxicity study in rats - Limit test, DACO: 4.6.2
2585480	2013, BayCamba: Acute inhalation toxicity in rats - Limit test, DACO: 4.6.3
2585480	2014, DiFlexx SC: Primary eye irritation study in rabbits, DACO: 4.6.4
2585480	2013, BayCamba: Primary skin irritation study in rabbits, DACO: 4.6.5
2585480	2013, BayCamba: Local lymph node assay (LLNA) in mice, DACO: 4.6.6

PMRA # 2585458 2015, Value assessment of BCS-CT-01 and tank-mixtures applied pre-plant, pre-emergence, and post-emergence in field corn, DACO: 10, 10.1, 10.2, 10.2.1, 10.2.2, 10.2.3, 10.2.3.1, 10.2.3.3(B), 10.3, 10.3.1, 10.3.2, 10.3.2(A), 10.3.3, 10.5.1, 10.5.2, and 10.5.3.

PMRA #2585461 2015, Field trial reports: Value assessment of BCS-CT-01 and tank-mixtures applied pre-plant, pre-emergence, and post-emergence in field corn, DACO: 10, 10.2.3.3(B), and 10.3.2(A).

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