



Evaluation Report for Category B, Subcategory 4.1 Application

Application Number: 2008-0681
Application: B.4.1 (conversion to full registration without consultation)
Product: Green Cross Killex 500 Liquid Turf Herbicide Concentrate
Registration Number: 27975
Active ingredients (a.i.): Dicamba [DIC], 2,4-D [DXB], Mecoprop-p (present as dimethylamine salt) [MEQ]
PMRA Document Number: 1913524

Background

During the re-evaluation of the active ingredient mecoprop (racemic: 50/50 R/S isomers), the PMRA had identified significant data gaps for racemic mecoprop that would have to be addressed in order to bring the supporting database up to modern standards (refer to Re-evaluation Decision Document RRD2004-09, Mecoprop). At the time, rather than generating the required data to support continuing registration, the registrants of technical racemic mecoprop decided to discontinue sales of the racemic form of mecoprop and to replace it with a specific isomer of mecoprop known as mecoprop-p.

Purpose of Application

The purpose of this application was to convert the subject end-use product to full registration. This application was assessed at the same time as conversion applications for Marks Mecoprop-p Technical Acid (Registration Number 27441), Nufarm Mecoprop-p Technical Acid (Submission Number 2007-8790, Registration Number 27631) and A.H. MARKS MCPP-p 600 Liquid Herbicide (Submission Number 2007-8794, Registration Number 28563).

Furthermore, there were approximately 60 associated end-use products assessed for conversion from conditional to full registration. The conversion of these applications was dependent on the conversion of the above three applications.

Chemistry Assessment

The chemistry requirements have been fulfilled.

Health Assessments

A toxicology assessment was not required for this application.

Occupational and residential risk resulting from the use of products containing mecoprop-p are not of concern taking into consideration the new toxicology and occupational exposure data.

A food residue assessment was not required for this application.

Environmental Assessment

An environmental assessment was not required for this application.

Value Assessment

Data were provided from four trials to bridge efficacy and crop tolerance of the conditionally registered resolved isomer formulations of co-formulated turf products containing mecoprop, dicamba and 2,4-D to the racemic formulations. Efficacy between racemic and resolved isomer formulations was comparable for a subset of labelled weeds (stitchwort, clover, dandelion, black medick, ground ivy and chickweed) when applied in turf at labelled rates. In addition, crop tolerance in turf was equivalent between the racemic and resolved isomer formulations. Therefore, based on the data provided, the racemic and resolved isomer formulations of mecoprop can be considered agronomically equivalent.

Additionally, data were provided from 12 trials conducted in barley (4), wheat (3) and oat (5) to bridge the efficacy and crop tolerance of the racemic formulation of mecoprop to that of the resolved herbicidally active isomer of mecoprop-p . Based on the data provided, efficacy of mecoprop-p was comparable to the racemic mecoprop on a subset of labelled weeds (cleavers and Canada thistle) in wheat, oat and barley. Crop tolerance to mecoprop-p was comparable between racemic and resolved isomer formulations.

Conclusion

The PMRA has assessed all available information and is able to support the conversion of the subject end-use product to full registration.

References

PMRA Document Number	Reference
1522702	2006, Assessment of Dermal and Inhalation Exposure to Homeowners and Professional Lawn Care Operators During the Application of MCPP-p, 2,4-D and Dicamba to Residential Turf, DACO: 5.3
1522721	2004, Efficacy Small scale trials: trial reports 10pp., DACO: 10.2.3.3
1522722	2004, Efficacy Small scale trials: trial reports 15pp., DACO: 10.2.3.3
1522723	2006, Efficacy Small scale trials: trial reports 9pp., DACO: 10.2.3.3
1522724	2004, Efficacy Small scale trials: trial reports 17pp., DACO: 10.2.3.3
1522725	2004, Efficacy Small scale trials: trial reports 14pp., DACO: 10.2.3.3
1522726	2004, Efficacy Small scale trials: trial reports 20pp., DACO: 10.2.3.3
1522727	2004, Efficacy Small scale trials: trial reports 9pp., DACO: 10.2.3.3
1522728	2004, Efficacy Small scale trials: trial reports 16pp., DACO: 10.2.3.3
1522729	2004, Efficacy Small scale trials: trial reports 18pp., DACO: 10.2.3.3
1522730	2004, Efficacy Small scale trials: trial reports 9pp., DACO: 10.2.3.3
1522731	2004, Efficacy Small scale trials: trial reports 28pp., DACO: 10.2.3.3
1522732	2004, Efficacy Small scale trials: trial reports 23pp., DACO: 10.2.3.3
1522733	2004, Evaluation of Mecoprop for Weed Control and Crop Tolerance in Oats (Trial L403) 9pp., DACO: 10.2.3.3
1522734	2004, Evaluation of Mecoprop for Weed Control and Crop Tolerance in Oats (Trial L406) 9, DACO: 10.2.3.3
1522735	2004, Mecoprop 150 g/l, 600 g/l (2004-MCPP-p-01) Combined Efficacy Tolerance Trial 19pp., DACO: 10.2.3.3
1522736	2004, Oats and MCPP Trial. Efficacy Small scale trials: trial reports 5pp., DACO: 10.2.3.3
1522709	2006, Value summary 3-way MCPP-p products –turf 6pp., DACO: 10.1
1522710	2005, Value summary –wheat 5pp., DACO: 10.1
1522711	2005, Value summary – barley 6pp., DACO: 10.1
1522712	2005, Value summary –oats 6pp., DACO: 10.1
1522720	2004, Summary of trials for Mecoprop applications for crop tolerance, weed control and yield evaluations in wheat, barley and oat 52pp., DACO: 10.2.3.1

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