



Evaluation Report for Category B, Subcategory B.4.1 Application

Application Number: 2006-0157
Application: B.4.1
Product: Command 360 ME
Registration Number: 27827
Active ingredients (a.i.): Clomazone
PMRA Document Number: 1391183

Background

Command 360ME (PCP#27827) is conditionally registered for pre-emergence use in soybeans in eastern Canada for the control of velvetleaf, lamb's quarters, lady's thumb, eastern black nightshade, barnyard grass, green foxtail, and yellow foxtail, and suppression of redroot pigweed and common ragweed. Command 360ME can be tank-mixed with the following products to broaden the spectrum of weeds controlled: Sencor 500F, Sencor 75DF, Lexone 75DF, Linuron 480, Lorox 50DF, Pursuit 240, and Dual II Magnum. Application rates for Command 360ME, both alone and in tank-mix, are dependant on soil texture.

Purpose of Application

The purpose of this application is to convert Command 360ME (PCP# 27827) from conditional to full registration. As a requirement of the conditional registration of Command 360ME , additional data was requested to establish the lowest effective rate (LER) for weed claims listed on the Command 360ME label (alone treatment) in medium textured soils. The original registration package proposed a rate of 840g ai/ha in medium soils, but the data provided indicated that there was potential for a reduced rate. The required data to establish LER was therefore requested to include clomazone rates of 560g ai/ha, 700g ai/ha, and 840g ai/ha. The LER established for the alone treatment of Command 360ME in medium textured soils will be extended to the Command 360ME component of the tank mixes that have been previously registered on the Command 360ME label.

Chemistry, Health and Environmental Assessments

A chemistry assessment was not required since there was no change to product chemistry. Health and environmental assessments were not required since the use pattern, including host crops, maximum application rates, and timings of the component products remained unchanged.

Value Assessment

To support the conversion of conditional to full registration of Command 360ME, the applicant submitted five trials on medium textured soils. All trials were conducted in southern Ontario in 2005. Treatments included rates of clomazone at 420, 560, 700, and 840g ai/ha. Not all labelled weeds were evaluated in each trial, and therefore to fully establish the LER for medium soils, it was necessary to combine the results of the submitted trials with the previously submitted data for the original registration of Command 360ME. This data consisted of 16 trials conducted on medium textured soils in Wisconsin and Ontario between 1995 and 2001. Treatments included rates of clomazone at 560, 700, and 840g ai/ha. All trials used Randomized Complete Block Design with 3 or 4 replicates.

Although the applicant provided the number of trials requested to establish LER, only lamb's quarters was evaluated in all five trials at a rate of 700g ai/ha. One to two trials evaluated a rate of 700 g ai/ha for control of lady's thumb, eastern black nightshade, redroot pigweed, common ragweed, and green foxtail. No data was provided for velvetleaf, barnyard grass, or yellow foxtail. Since the data provided for the 700g ai/ha rate in medium soils was insufficient on its own, and recognizing that the active ingredient (clomazone) was formerly registered (Command E.C., PCP#22347), consideration was given to the previous rates of active ingredient (light soils 672g ai/ha, medium soils 768g ai/ha, and heavy soils 864g ai/ha). In light of these previously registered rates, and the data provided at rates of 560 and 840g ai/ha, a rate of 700g ai/ha clomazone proved to be the lowest effective rate on medium textured soils.

Conclusions

A rate of 700g ai/ha clomazone in medium textured soils is the lowest effective rate (LER) necessary to control weeds labelled on the Command 360ME label. Therefore, 1.95L/ha Command 360ME (700g ai/ha clomazone) is the new application rate in medium textured soils. The same application rates will be extended to the Command 360ME component of the tank mixes. Command 360ME can be converted to full registration.

References

- | | |
|---------------|---|
| PMRA# 1116879 | COMMAND 360 ME 10.2.3.3: Efficacy: Small Scale Field Trials, DACO: 10.2.3.3 |
| PMRA#699392 | Evaluation of Clomazone ME for Weed Control in Soybeans |
| PMRA#699399 | Evaluation of Clomazone ME for Weed Control in Soybeans |
| PMRA#699402 | Evaluation of Clomazone ME for Weed Control in Soybeans |
| PMRA#699417 | Evaluation of Clomazone ME for Weed Control in Soybeans |
| PMRA#699418 | Evaluation of Clomazone ME for Weed Control in Soybeans |
| PMRA#699432 | Weed Control in Conventional Soybeans with Clomazone ME |

PMRA#806596 "VOLUME 3A, BOOKS 1 AND 2, SHOWS EFFICACY AS TO THE COMPARISON OF THE COMMAND 4EC (COMMAND EC) AND THE COMMAND 3ME (COMMAND 360ME) AS A HEAD TO HEAD TREATMENTS. THIS DATA WILL SHOW THERE IS NO SIGNIFICANT DIFFERENCE IN THE TWO FORMULATIONS AS TO EFFICACY.

PMRA#806598 "THE VOLUME 3A, BOOK 3 AND 4 ARE EFFICACY TREATMENT FOR COMMAND 3ME ON VARIOUS WEEDS." QUOTED FROM LETTER TO: K.ADAMS, PMRA. FROM: D.JOHNSON, FMC AGRICULTURAL PRODUCTS. DATED: JUNE 30, 2003. [COMMAND 360 ME MICROENCAPSULATED HERBICIDE; SUBN#2002-1011; V

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