

Evaluation Report for Category B, Subcategory 4.1 Application

Application Numbers: 2007-8442, 2007-8443 and 2007-8444

Application: Conversion to full registration without consultation **Products:** Prairie Gold 60% Corn Gluten Meal Technical,

TurfMaize Pro Pre-emergent Weed Seed Germination Inhibitor

with Corn Gluten - Commercial and TurfMaize Pre-

emergent Weed Seed Germination Inhibitor with Corn Gluten

Registration Number: 27490, 27865 and 27491

Active ingredient (a.i.): Corn Gluten Meal **PMRA Document Number :** 1864292

Background

The technical grade active ingredient, Prairie Gold 60% Corn Gluten Meal Technical (Registration Number 27490) and associated end-use product TurfMaize Pre-emergent Weed Seed Germination Inhibitor with Corn Gluten (Registration Number 27491), containing the active ingredient corn gluten meal, are for use in lawns where established Kentucky bluegrass is predominant to inhibit dandelion and smooth crabgrass seed germination.

Both products are conditionally registered in Canada. As a condition of registration, additional efficacy data were required to demonstrate the claimed effect of the end-use product.

The detailed review for Prairie Gold 60% Corn Gluten Meal Technical and TurfMaize Preemergent Weed Seed Germination Inhibitor with Corn Gluten can be found in Regulatory Note REG2003-09 *Corn Gluten Meal*. Subsequent to the original applications, an application to register TurfMaize Pro Pre-emergent Weed Seed Germination Inhibitor with Corn Gluten - Commercial (Registration Number 27865) was reviewed and approved for conditional registration, subject to the same data requirements as those imposed for TurfMaize Pre-emergent Weed Seed Germination Inhibitor with Corn Gluten. TurfMaize Pro Pre-emergent Weed Seed Germination Inhibitor with Corn Gluten – Commercial and TurfMaize Pre-emergent Weed Seed Germination Inhibitor with Corn Gluten are the same product that differ only in their marketing class.



Purpose of Application

The subject applications were submitted to convert Prairie Gold 60% Corn Gluten Meal Technical and its associated end-use products TurfMaize Pro Pre-emergent Weed Seed Germination Inhibitor with Corn Gluten - Commercial and TurfMaize Pre-emergent Weed Seed Germination Inhibitor with Corn Gluten from conditional registration to full registration, respectively.

Chemistry Assessment

Refer to Regulatory Note REG2003-09 Corn Gluten Meal for the chemistry assessment.

The chemistry requirements for these products have been completed.

Health Assessments

Refer to Regulatory Note REG2003-09 Corn Gluten Meal for the health assessment.

Environmental Assessment

Refer to Regulatory Note REG2003-09 Corn Gluten Meal for the environmental assessment.

Value Assessment

In accordance with the condition of registration, efficacy data from published and unpublished trial reports were submitted. Trials were conducted at four locations in western Canada (Kelowna and Penticton, BC, Calgary, AB and Regina, SK) and from one location in eastern Canada (Guelph, ON).

The level of dandelion control was assessed following applications of corn gluten meal at all trial locations over a study period that ranged from one to six years. The level of crabgrass control was assessed following applications of corn gluten meal at the Guelph location over a study period that ranged from one to three years. The level of crabgrass control was only reported in the Guelph trial as the weed is not indigenous to western Canada with the exception for the lower mainland of British Columbia.

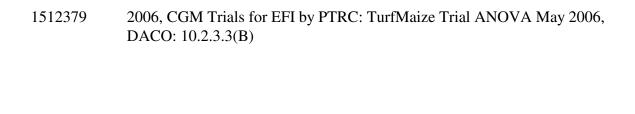
Based on the information made available to convert the conditional registration of TurfMaize Pre-emergent Weed Seed Germination Inhibitor with Corn Gluten and TurfMaize Pro Pre-emergent Weed Seed Germination Inhibitor with Corn Gluten - Commercial to full registration status, the weight of evidence supports the conclusion that corn gluten meal may inhibit dandelion and smooth crabgrass seed germination in lawns.

Conclusion

Based on the assessment of the data provided, the PMRA has concluded that the information is sufficient to support the conversion of Prairie Gold 60% Corn Gluten Meal Technical, TurfMaize Pro Pre-emergent Weed Seed Germination Inhibitor with Corn Gluten - Commercial and

TurfMaize Pre-emergent Weed Seed Germination Inhibitor with Corn Gluten from conditional to full registration.

References 1512364 Mr Jon Barnes, 2007, Efficacy Small Scale Trials - Dandelions, Smooth or Large Crabgrass, DACO: 10.2.3.3(B) Mr Jon Barnes, 2007, Efficacy Small Scale Trials - Dandelions, DACO: 1512365 10.2.3.3(B) Mr Jon Barnes, 2007, Efficacy Small Scale Trials - Dandelions, DACO: 1512366 10.2.3.3(B) K. Carey and E. Gunn, 2001, CRABGRASS AND BROADLEAF WEED 1512367 CONTROL IN TURF USING CORN GLUTEN MEAL BASED FERTILIZER. DACO: 10.2.3.3(B) 1512369 K. Carey and C. Stroud, 2003, BROADLEAF AND GRASS WEED CONTROL IN TURF AND BARE SOIL USING CORN GLUTEN MEAL BASED FERTILIZER, DACO: 10.2.3.3(B) 1512370 J.B. Ross and M.A. Anderson, 2005, Effects of Long Term Use of Corn Gluten and Soybean Meal on Dandelion in Turf, DACO: 10.2.3.3(B) 1512371 J.B. Ross and M.A. Anderson, 2006, Effects of Long Term Use of Corn Gluten and Soybean Meal on Dandelion in Turf, DACO: 10.2.3.3(B) 1512372 J.B. Ross and M.A. Anderson, 2005, The Evaluation of Two Agricultural Byproducts as a Control of Dandelion in Turf, DACO: 10.2.3.3(B) 1512373 J.B. Ross and M.A. Anderson, 2006, Evaluation of Two Agricultural By-products for Control of Dandelion in Turf, DACO: 10.2.3.3(B) 1512374 2005, CGM Trials for EFI by PTRC: Field Notes 2005, DACO: 10.2.3.3(B). 2005, CGM Trials for EFI by PTRC: Turf Maize Product Trial 2005, DACO: 1512375 10.2.3.3(B) 1512376 2005, CGM Trials for EFI by PTRC: TurfMaize Data 2005, DACO: 10.2.3.3(B) 2005, CGM Trials for EFI by PTRC: TurfMaize Trial ANOVA 2005, DACO: 1512377 10.2.3.3(B) 1512378 2006, CGM Trials for EFI by PTRC: TurfMaize Data 2006, DACO: 10.2.3.3(B)



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