



Evaluation Report for Category B, Subcategory B.2.4. Application

Application Number: 2007-4256
Application: Category B, Subcategory B.2.4 (new or changes to EP product chemistry – proportion of formulants)
Product: KnockOut Extra Herbicide
Registration Number: 29266
Active ingredients (a.i.): 360 g/L glyphosate (presents as isopropylamine salt)
PMRA Document Number: 1720667

Purpose of Application

The purpose of this application is to register KnockOut Extra Herbicide containing the active ingredient, glyphosate, for non-selective weed control in cropland systems and non-cropland areas. KnockOut Extra is intended for application alone or in tank mixtures with certain other herbicides. The requested use pattern of this product is identical to that of ClearOut 41 Plus (Reg. No. 28322). For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

Chemistry Assessment

KnockOut Extra is formulated as a solution containing glyphosate, present as the isopropylamine salt, at a nominal concentration of 360 g/L. This end-use product has a density of 1.176 g/mL and pH of 4.92. The chemistry requirements for KnockOut Extra are complete.

Health and Environmental Assessment

Health and environmental assessments were not required since the use patterns, including host crops, application rates and timings, of KnockOut Extra Herbicide are identical to that of cited precedent ClearOut 41 Plus.

Value Assessment

Data from 2 field research trials were submitted to demonstrate the agronomic equivalency between KnockOut Herbicide and the precedent product ClearOut 41 Plus.

Control of velvetleaf, giant foxtail, green foxtail, and lamb's-quarters was visually assessed on 2 to 3 occasions in these trials. Mean control of these weeds following the application of KnockOut Herbicide was comparable to that of ClearOut 41 Plus. Yield of glyphosate tolerant soybeans was also measured in these trials. The soybean yield with KnockOut Herbicide treatment was comparable to that with ClearOut 41 Plus treatment.

Given the consistent performance of a number of glyphosate end use products over various formulations, the registration of KnockOut Herbicide is supported from a value standpoint.

Conclusions

The PMRA has determined that KnockOut Extra Herbicide is eligible for registration, but its registration status is subject to the registration of KnockOut 62 under the submission number 2007-4211. KnockOut 62 is intended to be used in the manufacture of KnockOut Extra Herbicide.

References

- PMRA # 1426212: 2005, KnockOut Extra: Product identity and composition, LNI-0501, DACO: 2.11, 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.12, 2.12.1, 2.2, 2.3, 2.3.1, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 3.1.2, 3.2.1, 3.2.2, 3.2.3, 3.3.1, 3.4.1. CBI.
- PMRA # 1426213: 2007, Validation of analytical methodology, MKL07-0101, DACO: 2.13, 2.13.1, 2.13.2, 2.13.3, 2.13.4, 3.4.1. CBI.
- PMRA # 1426216: 2007, Applicant name and address, DACO: 2.1, 3.1.1.
- PMRA # 1426217: 2004, Physical and chemical characteristics of KnockOut Extra, 3100-06, DACO: 2.14, 2.14.1, 2.14.2, 2.14.3, 2.14.4, 2.14.5, 2.14.6, 3.5.14, 3.5.2, 3.5.6, 3.5.7, 3.5.8, 3.5.9. CBI.
- PMRA # 1631805: 2007, Validation of analytical methodology for the assay of glyphosate acid and significant formulation adjuvants and subsequent compositional analysis of formulated end use products, MKL07-0101, DACO: 3.4.1. CBI.
- PMRA # 1631806: 2008, Container material and description, DACO: 3.5.5. CBI.
- PMRA # 1631807: 2008, Waiver, DACO: 3.5.13, 3.5.15.
- PMRA # 1631808: 2007, Physical and chemical characteristics of KnockOut Extra: Storage stability, 2100-20, DACO: 3.5.10. CBI.
- PMRA # 1631809: 2005, Physical and chemical characteristics of KnockOut Extra: Physical state, oxidation/reduction, chemical incompatibility, corrosion characteristics, pH, viscosity and relative density, 3100-06, DACO: 3.5.14, 3.5.2, 3.5.6, 3.5.7, 3.5.8, 3.5.9.
- PMRA # 1631810: Efficacy of KnockOut Extra Herbicide on selected weeds (Final Report). November 14, 2005. Liberta Now, Inc. DACO 10.2.3.3 and 10.3.3. pp 31.

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