

Evaluation Report for Category B, Subcategory 3.10 and 3.12 Application

Application Number: 2010-1048
Application: B.3.10-Changes to Product Labels-Tank Mixes
B.3.12-Changes to Product Labels-New Site
Product: Prowl H₂O Herbicide
Registration Number: 29542
Active ingredients (a.i.): Pendimethalin (PEN)
PMRA Document Number English PDF: 2036819

Purpose of Application

The purpose of this application was to add a new-tank mix with glyphosate salts, present as isopropylamine, diammonium or potassium salts, for use on soybeans to the Prowl H₂O Herbicide label (Registration Number 29542; guarantee: 455 g/L pendimethalin).

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A toxicology assessment was not required for this application.

As pendimethalin and glyphosate are currently registered for use on soybeans at similar application rates and conditions, the tank-mix use will not result in an increase in dietary exposure to these active ingredients.

The request fits within the registered use pattern for Prowl H₂O Herbicide. No increase in occupational exposure over the registered use is expected with the addition of soybeans or a tank-mix with isopropylamine, diammonium or potassium salts. No unacceptable risk is expected when workers follow label directions and wear personal protective equipment as recommended on the label.

Environmental Assessment

An environmental assessment was not conducted because no additional environmental data were required to add a new tank mix with isopropylamine, diammonium or potassium salts for use on soybeans to the Prowl H₂O Herbicide label. The proposed label contains adequate statements for environmental protection, and no amendments are required at this time.

Value Assessment

Data were provided from 24 trials conducted in 2003, 2006, 2008 and 2009 at locations throughout Ontario and Quebec demonstrating efficacy and crop tolerance of Prowl H₂O Herbicide applied at a reduced rate of 1001 g a.i./ha of pendimethalin in tank mix with isopropylamine, diammonium or potassium salts for pre-plant surface application to soybean. The data provided demonstrated early season control of barnyard grass, crabgrass (smooth and large), green foxtail, yellow foxtail, common ragweed and redroot pigweed and early season suppression of lamb's-quarters.

Injury to soybean was either slight or undetectable following pre-plant applications of Prowl H₂O in tank mix with isopropylamine, diammonium or potassium salts. Yield data confirmed that soybean exhibited an adequate margin of crop safety to Prowl H₂O plus isopropylamine, diammonium or potassium salts.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of the product, Prowl H₂O Herbicide, and has found the information sufficient to add a new tank-mix with isopropylamine, diammonium or potassium salts for use on soybeans to the product label.

References

PMRA # 1874645 2010, Application to Register PROWL H₂O Herbicide on Soybeans, DACO:10.1,10.2,10.2.1,10.2.2,10.2.3,10.2.3.1,10.2.3.3,10.3,10.3.1,10.3.2, 10.4,10.5,10.6

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