

Evaluation Report for Category B, Subcategory 3.5, 3.11, 3.12 Application

Application Number: 2016-7824
Application: Changes to End-Use Product Label – Rotational Crops/Plantback Interval, New Pests and New Sites
Product: DUPONT Lumiderm Insecticide Seed Treatment
Registration Number: 30894
Active ingredient (a.i.): Cyantraniliprole
PMRA Document Number: 2820207

Purpose of Application

The purpose of this application was to amend the label of DUPONT Lumiderm Insecticide Seed Treatment to add a use in/on soybeans, including new pests for soybeans, updating the plant-back interval, adding 2 new crop groups to the rotational crops and some label improvements.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A toxicology assessment was not required for this application.

An assessment was performed for commercial treaters and planters who may be exposed to DUPONT Lumiderm Insecticide Seed Treatment. The new use should not result in risks of concern to the active ingredient, cyantraniliprole, when workers follow the label directions and wear the personal protective equipment identified on the label.

No new residue data for cyantraniliprole in soybeans were submitted to expand the label of DUPONT Lumiderm Insecticide Seed Treatment to include seed treatment of soybean seeds. Previously reviewed residue data from field trials conducted in/on soybeans were reassessed in the framework of this petition. In addition, a processing study in treated soybean was also reassessed to determine the potential for concentration of residues of cyantraniliprole into processed commodities. The petitioned change is not expected to result in an increase in the magnitude of cyantraniliprole residues in soybeans. Therefore, the use of DUPONT Lumiderm Insecticide will not pose an unacceptable risk to any segment of the population, including infants, children, adults, and seniors.

Environmental Assessment

The environmental risk from the proposed soybean seed treatment is lower or equivalent to the acceptable risk expected from the registered uses of cyantraniliprole. The label statements on the current label will effectively mitigate environmental risks.

Value Assessment

Field efficacy trials conducted in soybean against bean leaf beetle and soybean aphid demonstrated that DUPONT Lumiderm Insecticide Seed Treatment reduced numbers of both pests at a rate range of 0.075 to 0.200 mg a.i./seed. This supported a claim of a reduction of feeding damage of these pests for 28-35 days.

DUPONT Lumiderm Insecticide Seed Treatment has value as a new pest management tool for use in soybean to manage listed pests. It represents a new mode of action for resistance management of bean leaf beetle and soybean aphid in soybean.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided and has found the information sufficient to support the amendment of the label for DUPONT Lumiderm Insecticide Seed Treatment to add a use in/on soybeans, including new pests for soybeans, updating the plant-back interval, adding 2 new crop groups to the rotational crops and some label improvements.

References

PMRA Document Number	References
2396870	Agricultural Handler Exposure Task Force (AHETF) - Survey Results of Commercial and Downstream Seed Treating Facilities. DACO: 5.3, 5.4
2313618	2013, Observational Study to Determine Dermal and Inhalation Exposure to Workers in Commercial Seed Treatment Facilities: Mixing/Treating with a Liquid Pesticide Product and Equipment Clean-out. DACO: 5.4
2313628	2007, Determination of Operator Exposure to Imidacloprid During Loading/Sowing of Gaucho Treated Maize Seeds Under Realistic Field Conditions in Germany and Italy. DACO: 5.6
2781765	2017, Dust-off data for soybean seeds treated with DuPont Lumiderm Insecticide (cyantraniliprole 625 g/L FS) Seed Treatment, DACO: 5.15
2707496	2016, Biological Assessment Dossier for Dupont Lumiderm Insecticide Seed Treatment in Soybeans – Canada. DACO: 10.1, 10.2, 10.2.1, 10.2.2, 10.2.3, 10.2.3.1, 10.2.3.3, 10.3, 10.4, 10.5.1, 10.5.3
2707497	2016, Bean Leaf Beetle OECD, DACO: 10.2.3.3
2707498	2016, Soybean Aphid OECD, DACO: 10.2.3.3

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