

Evaluation Report for Category B, Subcategory 3.11 & 3.12 Application

Application Number: 2010-5381
Application: Changes to Product Labels-New Pests, New Site or Host
Product: Heads Up Plant Protectant
Registration Number: 29827
Active ingredients (a.i.): Saponins of *Chenopodium quinoa*
PMRA Document Number English PDF: 2012773

Purpose of Application

The purpose of this application was to add the suppression of *Rhizoctonia solani* and *Sclerotinia sclerotiorum* on soybean seed to the label of Heads Up Plant Protectant (containing saponins of *Chenopodium quinoa*, 63.02).

Chemistry and Environmental Assessment

The chemistry and environment assessments were not required for this application.

Health Assessments

The use of Heads Up Plant Protectant as a soybean seed treatment is consistent with the currently registered use as a potato seed treatment. Toxicological, occupational exposure and food residue exposure assessments concluded that no further data were required to support this new use.

Value Assessment

Six field trials were reviewed for the suppression of rhizoctonia root rot and damping-off (*Rhizoctonia solani*) and white mold (*Sclerotinia sclerotiorum*) on soybean using the proposed rate of Heads Up Plant Protectant. The efficacy of Heads Up Plant Protectant on suppressing rhizoctonia root rot was reported in two trials provided under low disease pressure (5 and 6% in the non-treated control). Heads Up Plant Protectant reduced the incidence of damping-off by 65% in one trial, and the incidence of root rot by 50 - 74% in two trials. Heads Up Plant Protectant combined with Yield Shield increased yields by 6% compared to Yield Shield alone in one trial. The disease pressures from white mold in three field trials were at low to moderate levels (disease incidence from 1% to 4%, severity from 49 - 92%). Heads Up Plant Protectant reduced the incidence of *Sclerotinia* infection by 46 - 59% (average of 54%) in all three trials. Heads Up Plant Protectant also reduced disease severity by 33 - 39% in two trials and 100% in one trial.

The claims for suppression of *Rhizoctonia solani* and *Sclerotinia sclerotiorum* are supported.

Conclusion

The PMRA, using all the information available for Heads Up Plant Protectant, has determined that the label of Heads Up Plant Protectant can be amended to add the suppression of *Rhizoctonia solani* and *Sclerotinia sclerotiorum* on soybean seed.

References

- 2000106 2010, Occupational Exposure for Heads Up Plant Protectant on Soybeans as a Seed Treatment, DACO: 5.2
- 1978971 2010, Efficacy and Crop Tolerance of Heads Up Plant Protectant used as a Soybean Seed Treatment. DACO 10.1, 10.2.1, 10.2.2, 10.2.3, 10.3

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