

Evaluation Report for Category B, Subcategory 3.2, 3.9, 3.10, 3.12 Application

Application Number: 2008-5503
Application: 3.2 – Change Application Timing
3.9 – Change Level of Control Claim
3.10 – Add Tankmix
3.12 – Add New Site
Product: Express SG Herbicide
Registration Number: 28262
Active ingredients (a.i.): Tribenuron-methyl (MEX)
PMRA Document Number (English PDF): 1989218

Purpose of Application

The purpose of this application was to add the following new tank-mix label claims to the Express SG Herbicide label:

- Express SG Herbicide + Hasten NT spray adjuvant (Reg. No. 28277) for the control of lambsquarters and suppression of wild buckwheat in tribenuron-methyl tolerant sunflowers (e.g. ExpressSun sunflower SU7).
- Express SG Herbicide + Poast Ultra Liquid Emulsifiable Herbicide (Reg. No. 24835) + Hasten NT spray adjuvant (Reg. No. 28277) for the control of lambsquarters and wild oats and suppression of wild buckwheat and green foxtail in tribenuron-methyl tolerant sunflowers (e.g. ExpressSun sunflower SU7).

Chemistry Assessment

There was no change in the chemistry of this product, therefore, all chemistry data requirements are complete.

Health Assessments

The addition of tribenuron-methyl tolerant sunflowers (e.g. ExpressSun sunflower SU7) to the Express SG Herbicide label should not result in potential occupational or bystander exposure over the registered uses of tribenuron-methyl. No unacceptable risk is expected when workers follow label directions and wear personal protective equipment as required on the label.

Residue data for tribenuron-methyl in sunflowers were submitted to support the use expansion of this active ingredient applied to tribenuron-methyl tolerant sunflowers (e.g. ExpressSun sunflower SU7) and the addition of the tankmixes with Hasten NT Spray adjuvant or Poast Ultra Liquid Emulsifiable Herbicide + Hasten NT Spray adjuvant to the Express SG Herbicide label.

Maximum Residue Limit

Based on the maximum residues observed in sunflower commodities treated with tribenuron-methyl, maximum residue limits (MRLs) to cover residues of tribenuron-methyl in/on sunflower will be established as shown in Table 1. Residues of tribenuron-methyl in processed commodities not listed in Table 1 are covered under the MRL for the raw agricultural commodity (RAC), sunflower.

Commodity	Application Method/ Total Application Rate (g a.i./ha)	PHI (days)	Residues (ppm)	Experimental Processing Factor	Currently Established MRL	Recommended MRL
Sunflower seeds	Ground and foliar broadcast / 22-23	110	All <0.01	No concentration observed in sunflower processed fractions	None	0.05 ppm
	Ground and foliar broadcast / 52-55	66-83	All <0.05			
	Ground and foliar broadcast / 272	83	All <0.05			

Following the review of all available data, an MRL of 0.05 ppm for sunflower seeds is recommended to cover residues of tribenuron-methyl. Residues of tribenuron-methyl in sunflower commodities at the established MRLs will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

The tank-mixes for use on tribenuron-methyl tolerant sunflowers (e.g. ExpressSun sunflower SU7) will not result in an unacceptable risk to the environment with the appropriate label statements on the product label.

Value Assessment

Data from a total of 14 field research trials were submitted. The trials were conducted in Alberta, Manitoba, and Saskatchewan in 2007 and 2008.

The efficacy of the treatment of 7.5 g a.i./ha Express SG + 0.5% v/v Hasten or the tank mixture of 7.5 g a.i./ha Express SG + 212.5 g a.i./ha Poast Ultra + 0.5% v/v Hasten for control of lamb's-quarters, wild buckwheat, wild oats, and green foxtail was visually assessed in 7 trials. Efficacy data demonstrated that (1) the treatment of 7.5 g a.i./ha Express SG + 0.5% v/v Hasten can be expected to provide control of lamb's-quarter and suppression of wild buckwheat and that (2) the tank mixture of 7.5 g a.i./ha Express SG + 212.5 g a.i./ha Poast Ultra + 0.5% v/v Hasten can be expected to provide control of lamb's-quarter and suppression of wild buckwheat, wild oats, and

green foxtail in tribenuron-methyl tolerant sunflowers (e.g. ExpressSun sunflower SU7).

The level of crop injury (%) to tribenuron-methyl tolerant sunflowers following an application of 7.5 g a.i./ha Express SG + 0.5% v/v Hasten was reported in 12 trials. Crop injury was generally low or not visually detectable. Yield data from 5 dedicated crop tolerance trials further supported the crop tolerance claims. Crop injury to tribenuron-methyl tolerant sunflowers (e.g. ExpressSun sunflowers SU7) following an application of the tank mixture of Express SG + Poast Ultra + Hasten was assessed in 5 trials and no injury was observed.

Based on the available evidence, registration of the treatment of Express SG + Hasten or the tank mixture of Express SG + Poast Ultra + Hasten in tribenuron-methyl tolerant sunflowers (e.g. ExpressSun sunflowers SU7) for control of lamb's-quarter and suppression of wild buckwheat, wild oats, and green foxtail can be supported from a value standpoint.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of this application and has found the information sufficient to support full registration of the amendment.

References

- 1678393 2008, Efficacy and crop tolerance of Express SG herbicide alone plus Poast Ultra Herbicide tank-mixtures on ExpressSun Sunflower SU7, DACO: 10.2.3.3,10.3.2
- 1678390 2008, Use Site description, DACO: 5.2
- 1720974 2004, 28262-20090210 US MOR study, DACO: 7.4.1
- 1678396 2008, magnitude of residue of Tribenuron Methyl in herbicide tolerant sunflowers following application of DPX-L5300 Herbicide., DACO: 7.4.1

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