

Evaluation Report for Category B, Subcategory 2.1, 2.3, 2.4 Application

Application Number:	2017-6431
Application:	New End Use Product Chemistry – Guarantee, Identity of
	Formulants, Proportion of Formulants
Product:	Vibrance Trio
Registration Number:	33310
Active ingredients (a.i.):	Fludioxonil, Sedaxane, Metalaxyl-M and S-isomer
PMRA Document Number	: 2850156

Purpose of Application

The purpose of this application was to register the end-use product Vibrance Trio as a seed treatment on soybeans and Crop Subgroup 6C (Dried shelled peas and beans).

Chemistry Assessment

Vibrance Trio is formulated as a suspension containing fludioxonil at a concentration of 24.8 g/L, metalaxyl-M and S isomer at a concentration of 149.3 g/L, and sedaxane at a concentration of 24.8 g/L. This end-use product has a density of 1.07 g/mL and pH of 7.7. The required chemistry data for Vibrance Trio have been provided, reviewed and found to be acceptable.

Health Assessments

Vibrance Trio is of low acute toxicity via the oral, dermal, and inhalation routes based on studies in rats, and slightly irritating to the skin and minimally irritating to the eye based on studies in rabbits. Vibrance Trio is not a potential dermal sensitizer based on results of a local lymph node assay in mice.

No new residue data were submitted to support the registration of Vibrance Trio. Previously reviewed residue data from field trials conducted in/on soybeans and dried shelled beans and peas were reassessed in the framework of this petition. Based on this assessment, exposure to residues of fludioxonil, metalaxyl-M, and sedaxane in/on soybeans and Crop Subgroup 6C commodities treated according to the approved use directions for Vibrance Trio will not pose an unacceptable health risk to any segment of the population, including infants, children, adults and seniors.

The use of Vibrance Trio on soybeans and Crop Subgroup 6C is not expected to result in risks of concern for seed treaters, planters, and bystanders provided that the product is used according to the approved label directions



Environmental Assessment

Environmental risk reduction and hazard statements are included on the label of Vibrance Trio, and this product is supported from an environmental perspective.

Value Assessment

Value information reviewed to support the registration of Vibrance Trio included a rationale and efficacy trials. The rationale was based on multiple precedent products which contain the same active ingredients. The rationale supported the extrapolation of previously registered uses to Vibrance Trio, as it is applied at very similar rates of active ingredients as the precedent products. Efficacy trials performed using tank mixes of products containing fludioxonil, sedaxane and metalaxyl-m and s-isomer provided evidence in support of the use of a sedaxane application rate of 2.5 g a.i./100 kg of seed, while also providing evidence of value of the combination of all three active ingredients.

Vibrance Trio is an additional all-in-one tool to prevent seed-borne and soil-borne disease, which can impact the yield and quality of soybeans, dried peas, and dried beans. Therefore, the use of Vibrance Trio to control listed seed-borne and soil-borne diseases on soybeans, dried peas, and dried beans is supported from a value perspective.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found it sufficient to support the registration of Vibrance Trio.

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