

## Evaluation Report for Category B, Subcategory 2.4, 3.10, 3.11, 3.12 Application

**Application Number:** 2013-1930  
**Application:** B.2.4 – Change Chemistry – Proportion of Formulants  
B.3.10 – New Tank Mixes  
B.3.11 – New Pests  
B.3.12 - New Sites  
**Product:** Sombrero 600 FS  
**Registration Number:** 30505  
**Active ingredients (a.i.):** Imidacloprid  
**PMRA Document Number:** 23475569

### Purpose of Application

The purposes of this application were (1) to add three new pests (soybean aphid, bean leaf beetle, seedcorn maggot) to the Sombrero 600 FS label; (2) to add four new sites of use (wheat (durum, spring, winter), barley, oats and soybeans) and four tank mixes to the Sombrero 600 FS label based on the precedent product Alias SC (PCP # 28475) and (3) to change the formulation of the product Sombrero 600 FS.

Sombrero 600 FS is a systemic insecticide seed treatment currently registered for use on canola, mustard (condiment-type only), rapeseed and field corn.

### Chemistry Assessment

Sombrero 600 FS is formulated as a suspension containing imidacloprid at a nominal concentration of 600 g/L. This end-use product has a density of 1.2345 g/mL and pH of 7.0-7.5. The chemistry requirements for this product are complete.

### Health Assessments

The changes to the product label and specifications are not expected to impact the toxicological profile of Sombrero 600 FS.

No new residue data were submitted to support the amendments of the Sombrero 600 FS label to add new pests (soybean aphid, bean leaf beetle, seedcorn maggot), new crops (wheat (durum, spring, winter), barley, oats and soybeans) and new tank mixes. Based on previously submitted and reviewed field trial data, the requested label amendments will not have any impact on the expected magnitude of imidacloprid residues in/on wheat (durum, spring, winter), barley, oats, and dry soybeans.

Residues of imidacloprid will be covered by the currently established MRLs in/on cereals (CG 15) and dry soybeans of 0.05 ppm and 3.5 ppm, respectively. Therefore, the dietary exposure to cereals and soybeans treated with Sombrero 600 FS will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

The use of Sombrero 600 FS to treat cereal and soybean seeds is not expected to result in an increase of exposure to treaters and planters compared to the exposure from the registered uses of imidacloprid (IMI). No risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

### **Environmental Assessment**

The addition of wheat (durum, spring, winter), barley, oats and soybean to the Sombrero 600 FS label is at the same rate as the currently registered Alias 240 SC product. Therefore, this change falls within the current environmental risk assessment and is acceptable.

### **Value Assessment**

Use of Sombrero 600 FS (600 g/L imidacloprid, Reg. no. 30505) on cereals (durum wheat, winter wheat, spring wheat, barley and oats) at the rate of 17-50 ml product (10-30 g a.i.)/100 kg seed for control of wireworm; and use on soybeans at the rate of 104-208 ml product (62.5-125 g a.i.)/100 kg seed for control of soybean aphid, bean leaf beetle, seedcorn maggot and wireworm is acceptable based on extrapolation from use of the precedent product Alias 240 SC.

Fungicide tank mixes proposed on barley, wheat, oats and soybean at the currently registered rates to control seed and seedling diseases, seed-borne pathogens, smuts and bunts were supported. Combining products allows the grower to control a broad spectrum of insect and fungal pests that attack cereal and soybean plants at the seedling stage and protects crop yield and quality resulting in an economic benefit to the grower.

### **Conclusion**

The PMRA has reviewed the data provided in support of the subject application. Based on this review, the amendments to the product described above are acceptable.

### **References**

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