



## Evaluation Report for Category B, Subcategory L.1.2 Application

**Application Number:** 2021-1860  
**Application:** Application subject to the Protection of Proprietary Interests in Pesticide Data Policy  
**Product:** Advantage Trifluralin 480 EC Liquid Herbicide  
**Registration Number:** 34590  
**Active ingredient (a.i.):** Trifluralin  
**PMRA Document Number:** 3356055

### Purpose of Application

The purpose of this application was to register a new commercial class herbicide, Advantage Trifluralin 480 EC Liquid Herbicide, based on a precedent product to control weeds on crop lands and non-crop sites.

### Chemistry Assessment

Advantage Trifluralin 480 EC Liquid Herbicide is formulated as an emulsifiable concentrate containing trifluralin at a concentration of 480 g/L. This end-use product has a density of 1.0 – 1.1 g/mL and pH of 5.6 (1% solution). The required chemistry data for Advantage Trifluralin 480 EC Liquid Herbicide have been provided, reviewed and found to be acceptable.

### Health Assessments

Advantage Trifluralin 480 EC Liquid Herbicide was considered toxicologically equivalent to the precedent product; therefore, no toxicology data were required. Advantage Trifluralin 480 EC Liquid Herbicide is considered to be of slight acute toxicity via the oral and dermal routes, and of low acute toxicity via the inhalation route. It is considered to be non-irritating to the eyes and skin, and is considered to be a dermal sensitizer.

The use pattern of Advantage Trifluralin 480 EC Liquid Herbicide containing trifluralin is comparable to the registered use pattern of the precedent product. Therefore, potential exposure for mixers, loaders, applicators, bystanders and postapplication workers is not expected to exceed the current exposure to the registered products of this active ingredient. No health risks of concern are expected for workers and bystanders when label directions, precautions and restrictions are followed.

No new residue data for trifluralin were submitted or are required to support the registration of Advantage Trifluralin 480 EC Liquid Herbicide. Previously reviewed residue data were re-assessed in the framework of this application.

The use directions on the Advantage Trifluralin 480 EC Liquid Herbicide label, including the target crops, method (ground), rates and timing of application, geographic restrictions, preharvest intervals, feeding restrictions, and crop rotation restrictions are comparable to those on the precedent end-use product label.

Based on this assessment, residues are not expected to be greater than those for the currently registered uses and will be covered by the established maximum residue limits (MRLs). Consequently, dietary exposure to residues of trifluralin is not expected to increase with the registration of Advantage Trifluralin 480 EC Liquid Herbicide and will not pose health risks of concern to any segment of the population, including infants, children, adults and seniors.

### **Environmental Assessment**

Based on a scientific review of the available information, it has been concluded that the environmental risks associated with the use of Advantage Trifluralin 480 EC Liquid Herbicide, containing the active ingredient trifluralin, are acceptable when used according to the label directions.

### **Value Assessment**

Registration of a generic product may increase product competition, which may in turn reduce purchasing costs of similar products.

The formulation of Advantage Trifluralin 480 EC Herbicide was compared to the formulation of the cited precedent product. The differences between the two formulations were considered minor, which are unlikely to result in any significant impact on product performance, in terms of efficacy and/or crop tolerance. Therefore, all uses and claims found on the precedent product label are supported for inclusion on the Advantage Trifluralin 480 EC Herbicide label subject to the required label amendments/updates.

### **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to register Advantage Trifluralin 480 EC Liquid Herbicide.

## References

### PMRA

#### Document

Number	Reference
3226062	2020, DACO 3.0 Advantage Trifluralin 480 EC Liquid Herbicide, DACO: 3.0, 3.1, 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.2.3, 3.3.1, 3.5.12, 3.5.13, 3.5.15, 3.5.5 CBI
3226066	2018, Manufacture Process of Trifluralin 480g/L EC, DACO: 3.2, 3.2.1, 3.2.2 CBI
3226070	2020, Product Chemistry Testing and Accelerated Storage Stability/Corrosion Characteristics Testing of Trifluralin 480 g/L EC, DACO: 3.4, 3.4.1, 3.4.2, 3.5, 3.5.1, 3.5.10, 3.5.11, 3.5.14, 3.5.2, 3.5.3, 3.5.4, 3.5.6, 3.5.7, 3.5.8, 3.5.9 CBI
3226072	2021, Physico-Chemical Properties of Trifluralin 480 EC, DACO: 3.5.10, 3.5.14, 3.5.6
3331016	2022, Revised Formulation Process (2021-1860), DACO: 3.2.2 CBI

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