

## Evaluation Report for Category B, Subcategory 3.12 Application

**Application Number:** 2015-0983  
**Application:** Changes to Product Labels –New site  
**Product:** CIVATIS TURF DEFENSE Ready-2-Mix  
**Registration Number:** 29825  
**Active ingredients (a.i.):** Mineral Oil  
**PMRA Document Number :** 2616529

### Purpose of Application

The purpose of this submission was to amend the end-use product, CIVATIS TURF DEFENSE Ready-2-Mix, containing mineral oil, to expand its use on turf from golf courses to sports and athletic fields.

### Chemistry Assessment

A chemistry assessment was not required for this application.

### Health Assessments

Toxicology and food residue assessments were not required for this application.

Occupational exposure associated with CIVATIS TURF DEFENSE Ready-2-Mix may occur during application and re-entry to the treated area(s) for mowing/landscaping activities. Occupational exposure will not be greater than the currently registered use pattern for turf on golf courses.

Any incidental bystander exposure to residues of mineral oil is not expected to be of concern due to the low toxicity of mineral oil. The use sites do not represent an increase in risk to workers or bystanders.

The Incident Reporting Program (IRP) of the Health Evaluation Directorate (HED) conducted a search of the IRP database for all human and domestic animal incident reports for mineral oil. As of February 8, 2016, four human, five domestic animal, one environment, and eight packaging failure incident reports involving mineral oil have been submitted to the PMRA. All incidents occurred in Canada. Human incidents were minor in severity and involved domestic class products that were used in or around the home. Routes of exposure included skin, eye, or respiratory exposures. Domestic animal incidents mostly involved ingestion of product containing mineral oil and were minor or moderate in severity.

In the eight packaging failure incidents, no injuries were reported. All of these incidents involved 5-gallon plastic pails that had leaked while stored in a warehouse.

These incident reports were considered in this evaluation and did not affect the risk assessment.

### **Environmental Assessment**

An environmental assessment was not required for this application.

### **Value Assessment**

No efficacy trials were submitted for this application. The registrant provided a scientific rationale to waive the efficacy data requirements for the use expansion of CIVATIS TURF DEFENSE Ready-2-Mix. The performance of the product on turfgrass on sports and athletic fields is expected to be comparable to its performance on turfgrass on golf courses, since grass species and the aspect of turf disease management are the same on all types of turf. Therefore, the use expansion to include turf on golf courses, sports and athletic fields is fully supported from a value perspective.

### **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the available information and is able to support the expansion of the use on turf from golf courses to sports and athletic fields for CIVATIS TURF DEFENSE Ready-2-Mix.

### **References**

<b>PMRA Document Number</b>	<b>Reference</b>
2525097	2014, Use Description for CIVATIS TURF DEFENSE Ready-2-Mix. DACO: 5.2
2525098	2014, Droplet sizes from spray mixtures amended with additives for potential drift reductions. DACO: 5.2
2511286	2015, Summary of publications to support Induced Systemic resistance as a mode of action for Civitas. DACO: 10.2.3.1
2511287	2010, Induced systemic resistance against three foliar diseases of <i>Agrostis stolonifera</i> by (2R,3R)-Butanediol or an isoparaffin mixture. DACO: 10.2.3.2(D)
2511288	A. M. Cortes-Barco, T. Hsiang and P. H. Goodwin, 2010, Comparison of induced resistance activated by benzothiadiazole, (2R,3R)-butanediol and an isoparaffin mixture against anthracnose of <i>Nicotiana benthamiana</i> . Plant Pathology 59:643-653, DACO: 10.2.3.2(D)

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