

## Evaluation Report for Category B, Subcategory B.2.1, 2.3, 2.4, 3.1, 3.12 Application

**Application Number:** 2008-1548  
**Application:** New end use product  
**Product:** Fungitrol 430S Fungicide  
**Registration Number:** 29894  
**Active ingredients (a.i.):** 3-Iodo-2-propynyl butyl carbamate (IPB)  
**PMRA Document Number (English PDF):** 1989671

### Purpose of Application

The purpose of this application was to register a new end use product, Fungitrol 430S Fungicide, that contains the active ingredient 3-iodo-2-propynyl butyl carbamate (iodocarb). Fungitrol 430S Fungicide is for use as a preservative in exterior paint films, plastics, and adhesives.

### Chemistry Assessment

Fungitrol 430S Fungicide is formulated as a solution containing 3-iodo-2-propynyl butyl carbamate at a nominal concentration of 30% w/w. This end-use product has a density of 1.10 g/mL and a pH of 7.0. The chemistry requirements for Fungitrol 430S Fungicide are complete.

### Health Assessments

Fungitrol 430S Fungicide is considered to be of slight acute toxicity via the oral route, of low acute toxicity via the dermal route, and of moderate acute toxicity via the inhalation route. Fungitrol 430S Fungicide is severely irritating to the eyes, moderately irritating to the skin, and considered to be a potential dermal sensitizer.

A risk assessment was not performed for Fungitrol 430S Fungicide because the use pattern fits within the existing use profile for the active ingredient, 3-iodo-2-propynyl butyl carbamate (iodocarb). The potential exposure to mixers, loaders, applicator and the post-applicators is not expected to exceed that of registered uses. Label amendments outlining supplementary personal protective equipment (PPE), required due to toxicology signal words and hazard statements, were provided.

A food residue exposure assessment was not required for this application.

### Environmental Assessment

The active ingredient, 3-iodo-2-propynyl butyl carbamate, is toxic to aquatic organisms. Environmental exposure to these products through manufacturing processes can be mitigated through label statements.

Due to the use pattern as a preservative to be applied to exterior dry-film paints, adhesives and plastics, direct environmental exposure to Fungitrol 430S Fungicide is considered to be negligible if used according to the label.

## Value Assessment

A standardized four-week laboratory test method was established and used to evaluate nine different paint samples, six different plastic samples, and two samples each of different cements and adhesives. Long term field studies, ranging from six months to two years, were carried out in New Jersey, a climate similar to much of Canada, for exterior paint dry-film and wood-plastic composite material. As a whole, the submitted data showed that 1000-2000 ppm of iodocarb was a reasonable range for the protection of exterior paint films from mildew. Wood-plastic composite material required 1000-3000 ppm of 3-iodo-2-propynyl butyl carbamate (iodocarb), while plastics and adhesives required less 3-iodo-2-propynyl butyl carbamate (iodocarb) (250-1000 and 200-500 ppm a.i., respectively) to protect them from fungal degradation.

## Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support for the product, Fungitrol 430S Fungicide, and has found the information sufficient to support its full registration.

## References

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