



Evaluation Report for Category B, Subcategory 3.1 Application

Application Number: 2006-7423
Application: Application rate increase
Product: Rozone 2000 Industrial Microbicide
Registration Number: 27419
Active ingredients (a.i.): 4,5-dichloro-2-n-octyl-3(2H)-isothiazolone
PMRA Document Number: 1625077

Background

Rozone 2000 Industrial Microbicide is a currently registered end use product (Reg. No. 27419) containing the active ingredient, 4,5-dichloro-2-n-octyl-3(2H)-isothiazolone (20% guarantee), for the protection of exterior latex paint films against mildew.

Purpose of Application

The purpose of this application for Rozone 2000 Industrial Microbicide is to increase the rate for exterior latex paint films from 0.25% to 0.56% and, thus, increase the period of protection against mildew from 18 to 36 months. For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

Chemistry Assessment

A chemistry review was not required.

Health Assessments

The increase in application rate does not impact on the toxicological profile of the product.

Workers loading or transferring Rozone 2000 Industrial Microbicide into processing systems for paints and workers handling latex paints containing Rozone 2000 Industrial Microbicide are not expected to be exposed to levels of 4,5-dichloro-2-n-octyl-3(2H)-isothiazolone that would result in an unacceptable risk when used according to label directions. The personal protective equipment on the label is adequate and does not require any additional personal protective equipment.

Environmental Assessment

An environmental assessment was not conducted because the use pattern is the same as the one currently registered for Rozone 2000 Industrial Microbicide. The proposed rate of application is greater than the registered rate, however, the use pattern will not result in an increase in the environmental exposure and impact as a result of the increased rate. Therefore, additional environmental data were not required to support the increase in the application rate of Rozone 2000 Industrial Microbicide in exterior latex paint. Environmental concerns are mitigated on the existing label.

Value Assessment

Two scientifically valid field studies were carried out at a test site in Pennsylvania, representative of the exterior climate over much of Canada. Rozone 2000 Industrial Microbicide was added to samples of exterior latex paint at a range of different concentrations and applied to wooden test panels previously painted with either an alkyd or an acrylic paint. The test panels were exposed outdoors vertically and north-facing. The panels were evaluated for mildew growth at time intervals over the test period. A rate of 0.52 kg Rozone 2000 Industrial Microbicide/100 kg paint was found to be effective in protecting the paint films from mildew growth after 37 months. One latex paint formulation was used in both tests. However, it is recognized that there can be significant differences in the susceptibility of different paint formulations to microbial degradation. To help ensure that Rozone 2000 Industrial Microbicide is used at rates that are effective, but not excessive, a statement will be added to the label recommending formulators to conduct field trials using their own paints within the label rate for Rozone 2000 Industrial Microbicide.

Conclusion

The PMRA has completed an assessment of available information for Rozone 2000 Industrial Microbicide and has found the information sufficient to allow a full registration.

References

PMRA Document Number	Reference
1326572	2006, Field Trial for ROZONE 2000 Industrial Microbicide in Exterior Coatings - Supplemental Data; DACO 10.2.2.3.

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