

Evaluation Report for Category B, Subcategory 2.6 Application

Application Number: 2010-0136
Application: New EP Product Chemistry-New combination of TGAIs
Product: Fennosan PAA 15-C
Registration Number: 30066
Active ingredients (a.i.): Hydrogen Peroxide (HPX) and Peroxyacetic Acid (PCA)
PMRA Document Number: 2032552

Purpose of Application

The purpose of this application was to register a new end-use product for use as biofouling and slime control in paper mill systems and paper coating preservation. This end-use product is 100% re-pack of FMC Corporation's technical grade active ingredient, *VigoOx SP-15 Paper System Biocide* (PCP# 26978). The registrant is also requesting Master and Initial Product status. The active ingredients fit into the biochemical/non-conventional stream.

Chemistry Assessment

Fennosan PAA 15-C is a liquid product containing the active ingredients hydrogen peroxide at a nominal concentration of 10 % and peroxyacetic acid at a nominal concentration of 15 %. This product has a density of 1.13-1.15 g/mL at 20°C and pH of < 1 for a neat solution. The chemistry requirements for Fennosan PAA 15-C have been completed.

Health Assessments

The health evaluation review of Fennosan PAA 15-C was based on the toxicology data package of the registered technical product VigorOx as it is a repack of VigorOx.

On the basis of the submitted acute data package, Fennosan PAA 15-C is anticipated to be acutely corrosive to skin, eyes and mucosal membrane. The oral, dermal and inhalation toxicities are secondary to the corrosivity. The actives are unlikely to accumulate in mammalian organs/tissues long enough to exert significant effects on reproduction and development or induce neurotoxicity.

Due to the corrosive nature of the active ingredient, Fennosan PAA 15-C poses acute risk of severe eye and skin irritation to handlers. The occupational exposure is expected to be brief and mainly from a punctured tote, a leaking pump connection or when connecting or disconnecting the pump hoses to a tote, however the workers are required to wear personal protective equipment (PPE) which mitigates occupational exposure. Given the accepted use, bystander exposure is not anticipated.

Environmental Assessment

Fennosan PAA 15-C is a 100% re-pack of VigorOx SP-15 Paper System Biocide (Reg No. 26978). The active ingredients, peroxyacetic acid and hydrogen peroxide come under biochemical/non-conventional stream. Another end-use product, Pericide EF-C, is also currently registered for the same use by the same applicant. Use of Fennosan PAA 15-C does not result in an unacceptable risk to the environment.

Value Assessment

Laboratory studies were conducted to evaluate the ability of Fennosan PAA 15-C to reduce microbial activity in process water. The studies were conducted using a standardized method to test slimicides efficacy, and used authentic paper process samples containing their natural microorganisms to conduct the tests. A scientific rationale was also provided to support the use of this laboratory trial to support recirculating process water use. The data demonstrated that Fennosan PAA 15-C is effective at reducing fungal and bacterial counts under representative use conditions.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support for the product, Fennosan PAA 15-C and has found the information sufficient for full registration.

References

PMRA number	Reference
1910858	2010, Fennosan PAA Efficacy data Report, DACO: 10.2 CBI
1929337	2010, Clarification Response Letter, DACO: 0.8

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