

Evaluation Report for Category B, Subcategory 3.12 Application

Application Number: 2017-7059
Application: New or Changes to Product Labels-New Site
Product: Purate
Registration Number: 29887
Active ingredients (a.i.): Sodium chlorate
PMRA Document Number : 2939100

Background

Purate was first registered in 2010 as a slimicide in recirculating cooling water.

Purpose of Application

The purpose of this application was to amend the label for Purate to include the control of slime-forming bacteria in once-through cooling water uses.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

Toxicology and food exposure assessments were not required for this application. The use of Purate in once-through cooling water towers to control bacterial slime is not expected to increase occupational exposure over the currently registered uses for Purate.

Environmental Assessment

The use of Purate for bacterial slime control in once-through cooling water tower does not pose any additional risk to the environment and is thus supported. Additional label language pertaining to buffer zones, environmental precautions, and directions for use are required.

Value Assessment

Purate is a sodium chlorate product that is used in a device to generate chlorine dioxide – the actual biocide. Once-through cooling water uses the nearby source water, which may be either fresh, brackish or salt water. Two laboratory studies were provided that demonstrated the ability of chlorine dioxide to reduce bacterial numbers in water samples. In natural samples of both brackish and fresh water, chlorine dioxide at 0.5 ppm residual was able to reduce the bacterial population by three orders of magnitude. The value for this product has been found to be acceptable.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of the product, Purate, and has found the information sufficient to add once-through cooling water uses to the product label.

References

PMRA Document Number	Reference
2822741	2016, Purate Amendment - Efficacy in Brackish Water, DACO: 10.2.3.2(F)
2822742	2016, Purate Amendment - Efficacy in fresh water, DACO: 10.2.3.2(F)

ISSN: 1911-8082

© Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services Canada 2018

All rights reserved. No part of this information (publication or product) may be reproduced or transmitted in any form or by any means, electronic, mechanical photocopying, recording or otherwise, or stored in a retrieval system, without prior written permission of the Minister of Public Works and Government Services Canada, Ottawa, Ontario K1A 0S5.