

Evaluation Report for Category B, Subcategories 2.2, 2.3, 2.4 Application

Application Number: 2021-0175
Application: Changes to EP Product Chemistry-Form of Technical Grade Active Ingredient or Integrated Systems Product; Identity of Formulants; Proportion of Formulants
Product: Busan 1009 Liquid Microbicide Industrial
Registration Number: 19077
Active ingredients (a.i.): Methylene bis(thiocyanate), 2-(thiocyanomethylthio)benzothiazole
PMRA Document Number : 3340193

Purpose of Application

The purpose of this application was to amend the formulation of the registered product Busan 1009 Liquid Microbicide Concentrate, a material preservative for use in pulp and paper mills as well as commercial and industrial cooling water systems.

Chemistry Assessment

Busan 1009 Liquid Microbicide Industrial is formulated as a solution containing methylene bis(thiocyanate) at a concentration of 10.3 % and 2-(thiocyanomethylthio)benzothiazole at a concentration of 10.2 %. This end-use product has a density of 1.08 g/mL and pH of 5-7. The required chemistry data for Busan 1009 Liquid Microbicide Industrial have been provided, reviewed and found to be acceptable.

Health Assessments

The formulation changes are not anticipated to significantly change the toxicity profile of Busan 1009 Liquid Microbicide Industrial.

The amendments to the formulation of Busan 1009 Liquid Microbicide Industrial are not expected to result in potential occupational or bystander exposures to the active ingredients, methyl bis(thiocyanate) and 2-(thiocyanomethylthio)benzothiazole, over those of the registered uses. No risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

A dietary risk assessment was not required for this application.

Environmental Assessment

The updated formulation contains no formulants or contaminants of environmental concern, and therefore, no increase in exposure to the environment is expected when Busan 1009 Liquid Microbicide Industrial is used according to label directions. The label includes the required environmental precautions and hazards statements.

Value Assessment

The updated formulation was compared to the previous formulation of the product. The differences were considered minor, and unlikely to result in any significant impact on product performance. The formulation change was found to be acceptable.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found it sufficient to support the changes to the formulation of Busan 1009 Liquid Microbicide Concentrate.

References

PMRA

Document

No.	Reference
3190093	2017, Product Chemistry for Busan 1576 Formulation Process and Impurities, DACO: 3.2.1,3.2.2,3.2.3 CBI
3190094	2017, Product Chemistry for Busan 1576 Product Identity, Composition and Analysis, DACO: 3.3.1,3.4.1 CBI
3190095	2017, Product Chemistry for XP16-3481PVG, DACO: 3.5.1, 3.5.10, 3.5.11, 3.5.12, 3.5.13, 3.5.14, 3.5.15, 3.5.2, 3.5.3, 3.5.6, 3.5.7, 3.5.8, 3.5.9 CBI
3230220	2017, Determination of Storage Stability and Corrosion Characteristics of XP16-3481 PVG (BUSAN 1576, EPA Reg. No. 1448-443), DACO: 2.14.14 CBI
3329200	2017, Sample Chromatogram (BSN1576 Report), DACO: 3.4.1
3329201	2017, Solvent Blank Chromatogram (BSN1576 Report), DACO: 3.4.1

© Her Majesty the Queen in Right of Canada, as represented by the Minister of Health Canada, 2022

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 Health Canada, Ottawa, Ontario K1A 0K9.