

Evaluation Report for Category B, Subcategory 2.1 Application

Application Number: 2021-4932
Application: New End-use Product (Product Chemistry) - Guarantee
Product: Polyphase PW30
Registration Number: 34724
Active ingredient (a.i.): 3-Iodo-2-propynyl butyl carbamate
PMRA Document Number : 3429013

Purpose of Application

The purpose of this application was to register Polyphase PW30, a material preservative for use in paints, coatings, adhesives and dispersed pigments to control fungi.

Chemistry Assessment

Polyphase PW30 is formulated as a solution containing 3-iodo-2-propynyl butyl carbamate at a concentration of 30%. This end-use product has a density of 1.322 g/mL and pH of 6.47. The required chemistry data for Polyphase PW30 have been provided, reviewed and found to be acceptable.

Health Assessments

Polyphase PW30 is of slight toxicity via the oral route and of low toxicity via the dermal and inhalation routes. It is severely irritating to the eyes and mildly irritating to the skin, and is not a dermal sensitizer.

The use of Polyphase PW30 as a material preservative in paints and coatings, adhesives, and dispersed pigments is not expected to result in potential occupational, residential or bystander exposure over the registered use of 3-iodo-2-propynyl butyl carbamate. No risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

A dietary exposure assessment was not required for this application.

Environmental Assessment

When used in accordance with label directions, the environmental risks associated with the registration of Polyphase PW30 are acceptable.

Value Assessment

Polyphase PW30 is a material preservative to control the growth of fungi in paints, coatings, adhesives and dispersed pigments. The laboratory studies provided and currently registered material preservative products containing the same active ingredient demonstrated that this product has acceptable value as an in-can and dry-film material preservative against fungi.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to support the registration of Polyphase PW30.

References

PMRA

Document

Number	Reference
3268351	2021, Summary of Physical and Chemical Properties, DACO: 3.5,3.5.1,3.5.10, 3.5.11,3.5.12,3.5.13,3.5.14,3.5.15,3.5.2,3.5.3,3.5.4,3.5.5,3.5.6,3.5.7,3.5.8 CBI
3268354	2015, Physical and Chemical Characteristics of Polyphase PW30: Flammability, pH, Viscosity, Relative Density and Persistent Foaming Polyphase PW30, DACO: 3.5 CBI
3268355	2016, Polyphase PW30 Product Chemistry Data, DACO: 3.2 CBI
3268362	2017, Polyphase PW30: Storage Stability and Corrosion Characteristics, DACO: 3.5.10 CBI
3268363	2020, Performance Evaluation of Polyphase PW30 in Paint, Adhesive, Sealant, and Pigment Dispersion, DACO: 10.2
3268358	2015, Polyphase PW30 Acute Oral Toxicity- Up-And-Down Procedure in Rats, DACO: 4.6.1
3268356	2015, Polyphase PW30: Acute Dermal Toxicity in Rats, DACO: 4.6.2
3268357	2015, Polyphase PW30: Acute Inhalation Toxicity in Rats, DACO: 4.6.3
3268360	2015, Polyphase PW30: Primary Eye Irritation in Rabbits, DACO: 4.6.4
3268361	2015, Polyphase PW30: Primary Skin Irritation in Rabbits, DACO: 4.6.5
3268359	2015, Polyphase PW30: Dermal Sensitization Test in Guinea Pigs - Buehler Method, DACO: 4.6.6

© His Majesty the King in Right of Canada, as represented by the Minister of Health Canada, 2023

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.