

Evaluation Report for Category B, Subcategory 1.2 Application

Application Number: 2015-5008
Application: New TGAI Product Chemistry – New Source (site) New Registrant
Product: RatX Technical
Registration Number: 32657
Active ingredients (a.i.): Cellulose (from Powdered Cobs)
PMRA Document Number: 2733287

Purpose of Application

The purpose of this application was to register a new source of the active ingredient cellulose (from powdered corn cobs), RatX Technical, by a new registrant.

Chemistry Assessment

Common Name: Cellulose (from Powdered Corn Cobs)
IUPAC* Chemical Name: Cellulose
CAS† Chemical Name: Cellulose

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

RatX Technical has the following properties:

Property	Result
Colour and physical state	Tan solid
Nominal concentration	29.3%
Odour	No appreciable odour
Density	0.2563 – 0.3844 g/mL
Vapour pressure	Not applicable
pH	Not applicable
Solubility in water	7% vol
n-Octanol/water partition coefficient	Not applicable

The required chemistry data for RatX Technical have been provided, reviewed, and found to be acceptable.

Health Assessments

Exposure assessments were not required for this application.

RatX Technical, containing the active ingredient cellulose, is of low acute toxicity by the oral, dermal, and inhalation routes, minimally irritating to the eyes, non-irritating to the skin, and is not a dermal sensitizer. There is no evidence of treatment-related effects with respect to short-term toxicity, prenatal developmental toxicity, or genotoxicity. Handling cellulose may generate dust that could irritate the respiratory tract.

Environmental Assessment

The formulation of RatX Technical does not constitute an environmental concern. Environmental concerns have been mitigated through adequate statement on the product label.

Value Assessment

A value assessment was not required for this application.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided and is able to support the registration of RatX Technical.

References

A. List of Studies/Information Submitted by Registrant

PMRA Document Number

References

- 2565827 2015, Chemistry Requirements, DACO: 2.1, 2.3, 2.3.1, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, CBI
- 2565828 2013, Corn Cob Drying Process, DACO: 2.13.1, 2.13.2, 2.13.3, CBI
- 2565831 2015, Chemical and Physical Properties, DACO: 2.14.1, 2.14.10, 2.14.11, 2.14.12, 2.14.13, 2.14.2, 2.14.3, 2.14.4, 2.14.5, 2.14.6, 2.14.7, 2.14.8, 2.14.9, CBI
- 2646426 2016, Certificate of Analysis, DACO: 2.12, CBI
- 2646428 2013, Method 8 – Determining Acid Detergent Lignin Breakers, DACO: 2.13.1, CBI

B. Additional Information Used

- 2687121 World Health Organization, Geneva, 2016-10-07. 899. Microcrystalline cellulose (WHO Food Additive Series 40), <http://www.inchem.org/documents/jecfa/jecmono/v040je03.htm>, DACO: 4.8
- 2687125 Canadian Centre for Occupational Health and Safety, 2015-12-18, CHEMINFO Record Number 3496, Cellulose, <http://ccinfoweb2.ccohs.ca/cheminfo/records/3496E.html>, DACO: 4.8
- 2687126 Irving, G.W., 1973, Evaluation of the Health Aspects of Cellulose and Certain Cellulose Derivatives as Food Ingredients, Life Sciences Research Office, Federation of American Societies For Experimental Biology, DACO: 4.8
- 2687127 Roberfrid, M., 1990, Toxicological Evaluation of Dietary Fibre, Fd. Chem. Toxic. Vol. 28, No. 11, pp. 747-749, DACO: 4.8
- 2687128 Canadian Centre for Occupational Health and Safety, 2016-10-07, Cellulose RTECS Number FJ5691460, <http://ccinfoweb2.ccohs.ca/rtecs/records/FJ5691460.html>, DACO: 4.8
- 2687129 U.S. National Library of Medicine, Bethesda, Maryland, USA, 2016-06-06 ChemIDPlus - 9004-34-6 - Cellulose, microcrystalline [NF], <http://chem.sis.nlm.nih.gov/chemidplus/rn/9004-34-6>, DACO: 4.8

ISSN: 1911-8082

8 Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services Canada 2016

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.