Pesticide residues in food – 2008

Joint FAO/WHO Meeting on Pesticide Residues

EVALUATIONS 2008

Part II — Toxicological





Pesticide residues in food — 2008

Toxicological evaluations

Sponsored jointly by FAO and WHO With the support of the International Programme on Chemical Safety (IPCS)

Joint Meeting of the FAO Panel of Experts on Pesticide Residues in Food and the Environment and the WHO Core Assessment Group

Rome, Italy, 9-18 September 2008

The summaries and evaluations contained in this book are, in most cases, based on unpublished proprietary data submitted for the purpose of the JMPR assessment. A registration authority should not grant a registration on the basis of an evaluation unless it has first received authorization for such use from the owner who submitted the data for JMPR review or has received the data on which the summaries are based, either from the owner of the data or from a second party that has obtained permission from the owner of the data for this purpose.





WHO Library Cataloguing-in-Publication Data

Pesticide residues in food – 2008: toxicological evaluations / Joint Meeting of the FAO Panel of Experts on Pesticide Residues in Food and the Environment and the WHO Core Assessment Group, Rome, Italy, Switzerland, 9–18 September 2008.

Sponsored jointly by FAO and WHO with the support of the International Programme on Chemical Safety (IPCS).

1. Pesticide residues – toxicity. 2. No-observed-adverse-effect level. 3. Food contamination. I. FAO Panel of Experts on Pesticide Residues in Food and the Environment. II. WHO Core Assessment Group on Pesticide Residues. III. Title: Toxicological evaluations. V. Title: Pesticide residues in food 2008: evaluations. Part 2, Toxicological.

ISBN 978 92 4 166524 7 (NLM classification: WA 240)

© World Health Organization 2010

All rights reserved. Publications of the World Health Organization can be obtained from WHO Press, World Health Organization, 20 Avenue Appia, 1211 Geneva 27, Switzerland (tel.: +41 22 791 3264; fax: +41 22 791 4857; e-mail: bookorders@who.int). Requests for permission to reproduce or translate WHO publications – whether for sale or for noncommercial distribution – should be addressed to WHO Press, at the above address (fax: +41 22 791 4806; e-mail: permissions@who.int).

The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.

The mention of specific companies or of certain manufacturers' products does not imply that they are endorsed or recommended by the World Health Organization in preference to others of a similar nature that are not mentioned. Errors and omissions excepted, the names of proprietary products are distinguished by initial capital letters.

All reasonable precautions have been taken by the World Health Organization to verify the information contained in this publication. However, the published material is being distributed without warranty of any kind, either expressed or implied. The responsibility for the interpretation and use of the material lies with the reader. In no event shall the World Health Organization be liable for damages arising from its use.

Typeset in India Printed in United Kingdom

TABLE OF CONTENTS

	Page
List of participants	v
Abbreviations	ix
Introduction	xiii
Toxicological evaluations	
Azoxystrobin*	3
Buprofezin**	
Carbofuran	81
Chlorantraniliprole*	
Hexythiazox**	
Mandipropamid*	
Prothioconazole and Prothioconazole-desthio*	
Spinetoram*	
Spirotetramat*	
Triazole fungicide metabolites	
Annex 1. Reports and other documents resulting from previous Joint Meetings of the FAO Panel of Experts on Pesticide Residues in Food and the Environment and the WHO Expert Groups on Pesticide Residues	401
Environment and the wife Expert Gloups on resultide Residues	491

^{*} First full evaluation

^{**} Evaluated within the periodic review programme of the Codex Committee on Pesticide Residues

2008 Joint Meeting of the FAO Panel of Experts on Pesticide Residues in Food and the Environment and the WHO Core Assessment Group

Rome, 9 - 18 September 2008

PARTICIPANTS

FAO Panel of Experts on Pesticide Residues in Food and the Environment

Professor Eloisa Dutra Caldas, University of Brasilia, College of Health Sciences, Pharmaceutical Sciences Department, Brasília/DF, Brazil

Mr Stephen Funk, Health Effects Division, United States Environmental Protection Agency, Washington, USA (*FAO Chairman*)

Mr Denis J. Hamilton, Principal Scientific Officer, Biosecurity Queensland, Department of Primary Industries and Fisheries, Brisbane, Australia

Mr David Lunn, Senior Programme Manager (Residues–Plants), Export Standards Group, New Zealand Food Safety Authority, Wellington, New Zealand (*FAO Rapporteur*)

Dr Dugald MacLachlan, Australian Quarantine and Inspection Service, Australian Government Department of Agriculture, Fisheries and Forestry, Canberra, Australia

Dr Yukiko Yamada, Deputy Director-General, Food Safety and Consumer Affairs Bureau Ministry of Agriculture, Forestry and Fisheries, Chiyoda-ku, Tokyo, Japan

Toxicological Core Assessment Group

Professor Alan R. Boobis, Experimental Medicine & Toxicology, Division of Investigative Science, Faculty of Medicine, Imperial College London, London, United Kingdom

Dr Les Davies, Chemical Review, Australian Pesticides & Veterinary Medicines Authority, Kingston, Australia

Dr Vicki L. Dellarco, Health Effects Division, Office of Pesticide Programs, US Environmental Protection Agency, Washington, DC, USA (*WHO Rapporteur*)

Professor Angelo Moretto, Department of Environmental and Occupational Health, University of Milan, International Centre for Pesticides and Health Risk Prevention (ICPS), Milano, Italy (WHO Chairman)

Dr David Ray, Biomedical Sciences, University of Nottingham, Queens Medical Centre, Nottingham, United Kingdom

Dr Roland Solecki, Chemical Safety Division, Management and Overall Assessment, Federal Institute for Risk Assessment, Berlin, Germany

Dr Maria Tasheva, Consultant, National Service for Plant Protection, Ministry of Agriculture and Food, Sofia, Bulgaria

Secretariat

Mr Árpád Ambrus, Hungarian Food Safety Office, Budapest, Hungary (FAO Temporary Adviser)

Ms Catherine Adcock, Toxicological Evaluation Section 2, Health Effects Division II, Health Evaluation Directorate, Pest Management Regulatory Agency, Canada (*WHO Temporary Adviser*)

Mr Kevin Bodnaruk, West Pymble, NSW, Australia (FAO Editor)

Professor Zongmao Chen, Chairman of Codex Committee on Pesticide Residues, Academician, Chinese Academy of Engineering, Chinese Academy of Agricultural Sciences, P.R. China (*CCPR Chairman*)

Dr Myoengsin Choi, International Programme on Chemical Safety, World Health Organization, Geneva, Switzerland (WHO Staff Member)

Dr Ian Dewhurst, Pesticides Safety Directorate, York, United Kingdom (WHO Temporary Adviser)

Dr Ronald D. Eichner, Wanniassa ACT, Australia (FAO Temporary Adviser)

Dr Yibing He, Department of Science and Education, Ministry of Agriculture, Beijing P.R. China (*FAO Temporary Adviser*)

Mr George Herndon, Deputy Director, Health Effects Division, Office of Pesticide Programs, US Environmental Protection Agency, Washington, DC, USA (*FAO Temporary Adviser*)

Mr Makoto Irie, Plant Product Safety Division, Food Safety and Consumer Affairs Bureau, Ministry of Agriculture, Forestry and Fisheries, Tokyo, Japan (*FAO Temporary Adviser*)

Dr D. Kanungo, Additional DG, Directorate General of Health Services, Ministry of Health and Family Welfare, New Delhi, India (*WHO Temporary Adviser*)

Dr Katerina Mastovska, Eastern Regional Research Center (ERRC), Agricultural Research Service (ARS), United States Department of Agriculture, Wyndmoor, PA,USA (FAO Temporary Adviser)

Dr Jeronimas Maskeliunas, Food Standards Officer, Joint FAO/WHO Food Standards Programme, Nutrition and Consumer Protection Division, Food and Agriculture Organization of the United Nations, Rome, Italy (*Codex Secretariat*)

Dr Heidi Mattock, Tignieu-Jameyzieu, France (WHO Editor)

Dr Douglas B. McGregor, Toxicity Evaluation Consultants, Aberdour, Scotland (WHO Temporary Adviser)

Dr Francesca Metruccio, Department of Environmental and Occupational Health, University of Milan, International Centre for Pesticides and Health Risk Prevention (ICPS), Milan, Italy (WHO Temporary Adviser)

Dr Rudolf Pfeil, Toxicology of Pesticides and Biocides, Federal Institute for Risk Assessment, Berlin, Germany (WHO Temporary Adviser)

Dr Prakashchandra V. Shah, US Environmental Protection Agency (EPA), Washington DC, USA (*WHO Temporary Adviser*)

Mr Christian Sieke, Federal Institute for Risk Assessment, Berlin, Germany (FAO Temporary Adviser)

Ms Yong Zhen Yang, FAO Joint Secretary, Plant Protection Service (AGPP), Food and Agriculture Organization of the United Nations (FAO), Rome, Italy (FAO Joint Secretary)

Dr. Midori Yoshida, Section Chief, Division of Pathology, Biological Safety Research Center, National Institute of Health Sciences, Ministry of Health, Labour and Welfare, Tokyo, Japan (WHO Temporary Adviser)

Dr Angelika Tritscher, WHO Joint Secretary, International Programme on Chemical Safety, World Health Organization, Geneva, Switzerland (WHO Joint Secretary; unable to attend)

Dr Gerrit Wolterink, Centre for Substances & Integrated Risk Assessment, National Institute of Public Health and the Environment (RIVM), Bilthoven, Netherlands (*WHO Temporary Adviser*)

Dr Jürg Zarn, Swiss Federal Office of Public Health, Food Toxicology Section, Zurich, Switzerland (WHO Temporary Adviser)

预览已结束, 完整报告

https://www.yunbaogao.cn/report/i