

IPCS Harmonization Project

IPCS Risk Assessment Terminology

Part 1:

IPCS/OECD Key Generic Terms

used in Chemical Hazard/Risk Assessment

Part 2: IPCS Glossary of Key Exposure Assessment Terminology

IOMC

INTER-ORGANIZATION PROGRAMME FOR THE SOUND MANAGEMENT OF CHEMICALS A cooperative agreement among UNEP, ILO, FAO, WHO, UNIDO, UNITAR and OECD



World Health Organization Geneva

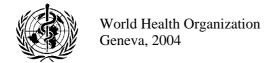
This report contains the collective views of an international group of experts and does not
necessarily represent the decisions or the stated policy of the United Nations Environment
Programme, the International Labour Organization, or the World Health Organization.

Harmonization Project Document No. 1

IPCS RISK ASSESSMENT TERMINOLOGY

This project was conducted within the IPCS project on the Harmonization of Approaches to the Assessment of Risk from Exposure to Chemicals.

Published under the joint sponsorship of the United Nations Environment Programme, the International Labour Organization, and the World Health Organization, and produced within the framework of the Inter-Organization Programme for the Sound Management of Chemicals.



The International Programme on Chemical Safety (IPCS), established in 1980, is a joint venture of the United Nations Environment Programme (UNEP), the International Labour Organization (ILO), and the World Health Organization (WHO). The overall objectives of the IPCS are to establish the scientific basis for assessment of the risk to human health and the environment from exposure to chemicals, through international peer review processes, as a prerequisite for the promotion of chemical safety, and to provide technical assistance in strengthening national capacities for the sound management of chemicals.

The Inter-Organization Programme for the Sound Management of Chemicals (IOMC) was established in 1995 by UNEP, ILO, the Food and Agriculture Organization of the United Nations, WHO, the United Nations Industrial Development Organization, the United Nations Institute for Training and Research, and the Organisation for Economic Co-operation and Development (Participating Organizations), following recommendations made by the 1992 UN Conference on Environment and Development to strengthen cooperation and increase coordination in the field of chemical safety. The purpose of the IOMC is to promote coordination of the policies and activities pursued by the Participating Organizations, jointly or separately, to achieve the sound management of chemicals in relation to human health and the environment.

WHO Library Cataloguing-in-Publication Data

International Programme on Chemical Safety. IPCS risk assessment terminology.

2 pts. in 1 v. -- (IPCS harmonization project; document no. 1)

Contents: Pt. 1, IPCS/OECD key generic terms used in chemical hazard/risk assessment / International Programme on Chemical Safety Joint Project with OECD on the Harmonization of Hazard/Risk Assessment Terminology -- Pt. 2, IPCS glossary of key exposure assessment terminology / IPCS project on the Harmonization of Approaches to the Assessment of Risk from Exposure to Chemicals.

1.Risk assessment 2.Environmental exposure 3.Terminology 4.Hazardous substances 5.Chemicals I.Organisation for Economic Co-operation and Development II.Title.

ISBN 92 4 156267 6 (LC/NLM classification: QV 15)

© World Health Organization 2004

All rights reserved. Publications of the World Health Organization can be obtained from Marketing and Dissemination, World Health Organization, 20 Avenue Appia, 1211 Geneva 27, Switzerland (tel: +41 22 791 2476; fax: +41 22 791 4857; email: bookorders@who.int). Requests for permission to reproduce or translate WHO publications — whether for sale or for noncommercial distribution — should be addressed to Publications, at the above address (fax: +41 22 791 4806; email: 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.

The World Health Organization does not warrant that the information contained in this publication is complete and correct and shall not be liable for any damages incurred as a result of its use.

Printed by the WHO Document Production Services, Geneva, Switzerland

TABLE OF CONTENTS

FOREWORD	1
LIST OF ACRONYMS AND ABBREVIATIONS	3
INTRODUCTION	5
PART 1: IPCS/OECD KEY GENERIC TERMS USED IN CHEMICAL HAZARD/RISK ASSESSMENT	7
PART 2: IPCS GLOSSARY OF KEY EXPOSURE ASSESSMENT TERMINOLOGY	.95

FOREWORD

Harmonization Project Documents are a new family of publications from the International Programme on Chemical Safety (IPCS) — a cooperative programme of the World Health Organization (WHO), the International Labour Organization (ILO), and the United Nations Environment Programme (UNEP). Harmonization Project Documents join the Environmental Health Criteria (EHC) methodology (yellow cover) series of documents as authoritative documents on methods for the risk assessment of chemicals.

The main impetus for the current coordinated international, regional, and national efforts on the assessment and management of hazardous chemicals arose from the United Nations Conference on Environment and Development (UNCED) held in 1992 and was reconfirmed at the 2002 World Summit on Sustainable Development. UNCED Agenda 21, Chapter 19, the "blueprint" for the environmentally sound management of toxic chemicals under the principles of sustainable development, has guided most international and national chemical-related activities. Chapter 19 is the agreed upon, endorsed international programme of action of governments for developing and implementing national programmes for management of chemicals within the principles of sustainable development.

The IPCS project on the Harmonization of Approaches to the Assessment of Risk from Exposure to Chemicals (Harmonization Project) is conducted under Agenda 21, Chapter 19. The Intergovernmental Forum on Chemical Safety (IFCS) Forum III, held in Salvador da Bahia in October 2000, agreed on Priorities for Action Beyond 2000, which further define the actions recommended to be taken. Forum III declared that by 2004, IPCS and the Inter-Organization Programme for the Sound Management of Chemicals (IOMC, which comprises seven intergovernmental organizations) should have ensured that recommendations for harmonized assessment approaches were available for terminology, cancer, and reproductive and developmental toxicology and that common principles for the assessment approach to other specific toxicological end-points, such as immunotoxicology, endocrine disruptors, and ecotoxicology, should be adopted wherever possible.

The IPCS Harmonization Project, which is ongoing, states that "harmonization," in the context of chemical risk assessment, should not simply be equated with standardization. It is not a goal of the project to standardize risk assessments globally, as that is considered to be neither appropriate nor feasible. Instead, harmonization is thought of as an effort to strive for consistency among approaches and to enhance understanding of the various approaches to chemical risk worldwide. Thus, harmonization is defined, in a step-wise fashion, as an understanding of the methods and practices used by various countries and organizations so as to develop confidence in, and acceptance of, assessments that use different approaches. It further involves a willingness to work towards convergence of these approaches or methods as a longer-term goal.

Achieving harmonization of approaches is considered to provide a framework for comparing information on risk assessment; understanding of the basis for exposure standards for specific chemicals in different countries; savings of time and expense by sharing information and avoiding duplication of work; and credible science through better communication among organizations and peer review of assessments and assessment procedures. The stated project

Harmonization Project Document No. 1

mission is to ensure better chemical risk assessment and hence management practices that promote the protection of human health and the environment within the framework of sustainable development.

This ongoing project is overseen by a geographically representative Harmonization Project Steering Committee and a number of ad hoc Working Groups that manage the detailed work. Finalization of documents includes a rigorous process of international peer review and public comment.

LIST OF ACRONYMS AND ABBREVIATIONS

ADI acceptable daily intake

bw body weight

COHb carboxyhaemoglobin

DDT dichlorodiphenyltrichloroethane EEC estimated exposure concentration

EED estimated exposure dose

EHC Environmental Health Criteria

EU European Union

FAO Food and Agriculture Organization of the United Nations

IFCS Intergovernmental Forum on Chemical Safety

ILO International Labour Organization

IOMC Inter-Organization Programme for the Sound Management of Chemicals

IPCS International Programme on Chemical Safety

IUPAC International Union of Pure and Applied Chemistry

LC50 median lethal concentration

LD50 median lethal dose

LOAEL lowest-observed-adverse-effect level

NEL no-effect level

NOAEL no-observed-adverse-effect level NOEC no-observed-effect concentration

NOEL no-observed-effect level

OECD Organisation for Economic Co-operation and Development

PEC predicted environmental concentration

PEM personal exposure monitor

PNEC predicted no-effect concentration

RfD reference dose

TDI tolerable daily intake
TI tolerable intake

UF uncertainty factor

预览已结束, 完整报告链接和二

https://www.yunbaogao.cn/report/index/report?re