

TABLE OF CONTENTS

FOREWORD	1
1. EXECUTIVE SUMMARY	4
2. IDENTITY AND PHYSICAL/CHEMICAL PROPERTIES	6
3. ANALYTICAL METHODS	6
4. SOURCES OF HUMAN AND ENVIRONMENTAL EXPOSURE	6
5. ENVIRONMENTAL TRANSPORT, DISTRIBUTION, AND TRANSFORMATION	7
6. ENVIRONMENTAL LEVELS AND HUMAN EXPOSURE	8
6.1 Environmental levels	8
6.2 Human exposure	8
7. COMPARATIVE KINETICS AND METABOLISM IN LABORATORY ANIMALS AND HUMANS	9
8. EFFECTS ON LABORATORY MAMMALS AND <i>IN VITRO</i> TEST SYSTEMS	9
8.1 Single exposure	9
8.2 Irritation and sensitization	10
8.3 Short-term exposure	10
8.3.1 Oral exposure	10
8.3.2 Inhalation exposure	10
8.3.3 Dermal exposure	10
8.4 Long-term exposure	10
8.4.1 Subchronic exposure	10
8.4.1.1 Oral exposure	10
8.4.1.2 Inhalation exposure	12
8.4.2 Chronic exposure and carcinogenicity	12
8.4.2.1 Tumour promotion	13
8.5 Genotoxicity and related end-points	15
8.6 Reproductive and developmental toxicity	15
8.7 Immunological and neurological effects	16
9. EFFECTS ON HUMANS	16
10. EFFECTS ON OTHER ORGANISMS IN THE LABORATORY AND FIELD	17
10.1 Aquatic environment	17
10.2 Terrestrial environment	17
11. EFFECTS EVALUATION	18
11.1 Evaluation of health effects	18
11.1.1 Hazard identification and dose-response assessment	18
11.1.2 Criteria for setting guidance values for biphenyl	19
11.1.3 Sample risk characterization	19
11.2 Evaluation of environmental effects	19
12. PREVIOUS EVALUATIONS BY INTERNATIONAL BODIES	20

13.	HUMAN HEALTH PROTECTION AND EMERGENCY ACTION	20
13.1	Advice to physicians	20
13.2	Health surveillance advice	20
13.3	Spillage	21
14.	CURRENT REGULATIONS, GUIDELINES, AND STANDARDS	21
	INTERNATIONAL CHEMICAL SAFETY CARD	22
	REFERENCES	24
	APPENDIX 1 — SOURCE DOCUMENTS	28
	APPENDIX 2 — CICAD PEER REVIEW	28
	APPENDIX 3 — CICAD FINAL REVIEW BOARD (Brussels, Belgium)	29
	APPENDIX 4 — SPECIALIZED CICAD PEER REVIEW	30
	APPENDIX 5 — CICAD FINAL REVIEW BOARD (Washington, DC)	30
	RÉSUMÉ D'ORIENTATION	32
	RESUMEN DE ORIENTACIÓN	35