

TABLE OF CONTENTS

FOREWORD	1
1. EXECUTIVE SUMMARY	4
2. IDENTITY AND PHYSICAL/CHEMICAL PROPERTIES	5
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	9
7. COMPARATIVE KINETICS AND METABOLISM IN LABORATORY ANIMALS AND HUMANS	9
8. EFFECTS ON LABORATORY MAMMALS AND <i>IN VITRO</i> TEST SYSTEMS	10
8.1 Single exposure	10
8.2 Irritation and sensitization	10
8.3 Short-term exposure	10
8.4 Long-term exposure	10
8.4.1 Subchronic exposure	10
8.4.2 Chronic exposure and carcinogenicity	12
8.5 Genotoxicity and related end-points	12
8.6 Reproductive and developmental toxicity	12
8.7 Immunological and neurological effects	16
8.8 Mode of action	17
9. EFFECTS ON HUMANS	18
9.1 Case reports	18
9.2 Epidemiological studies	18
10. EFFECTS ON OTHER ORGANISMS IN THE LABORATORY AND FIELD	18
10.1 Aquatic environment	18
10.2 Terrestrial environment	20
11. EFFECTS EVALUATION	20
11.1 Evaluation of health effects	21
11.1.1 Hazard identification and dose–response assessment	21
11.1.2 Criteria for setting guidance values for triphenyltin	22
11.1.3 Sample risk characterization	22
11.2 Evaluation of environmental effects	22
12. PREVIOUS EVALUATIONS BY INTERNATIONAL BODIES	23

13.	HUMAN HEALTH PROTECTION AND EMERGENCY ACTION	23
13.1	Human health hazards	23
13.2	Advice to physicians	23
13.3	Health surveillance advice	23
13.4	Spillage and disposal	23
14.	CURRENT REGULATIONS, GUIDELINES, AND STANDARDS	23
	INTERNATIONAL CHEMICAL SAFETY CARD	25
	REFERENCES	27
	APPENDIX 1 — SOURCE DOCUMENTS	32
	APPENDIX 2 — CICAD PEER REVIEW	33
	APPENDIX 3 — CICAD FINAL REVIEW BOARD	34
	RÉSUMÉ D'ORIENTATION	35
	RESUMEN DE ORIENTACIÓN	38