

TABLE OF CONTENTS

FOREWORD	1
1. EXECUTIVE SUMMARY	4
2. IDENTITY AND PHYSICAL/CHEMICAL PROPERTIES	4
3. ANALYTICAL METHODS	5
4. SOURCES OF HUMAN AND ENVIRONMENTAL EXPOSURE	5
5. ENVIRONMENTAL TRANSPORT, DISTRIBUTION, AND TRANSFORMATION	5
6. ENVIRONMENTAL LEVELS AND HUMAN EXPOSURE	6
6.1 Environmental levels	6
6.2 Human exposure	7
7. COMPARATIVE KINETICS AND METABOLISM IN LABORATORY ANIMALS AND HUMANS	7
8. EFFECTS ON LABORATORY MAMMALS AND <i>IN VITRO</i> TEST SYSTEMS	7
8.1 Single exposure	7
8.2 Irritation and sensitization	9
8.3 Short-term exposure	9
8.4 Long-term exposure	9
8.4.1 Subchronic exposure	9
8.4.2 Chronic exposure and carcinogenicity	10
8.5 Genotoxicity and related end-points	11
8.6 Reproductive and developmental toxicity	12
8.7 Immunological and neurological effects	12
8.7.1 Immunotoxicity	12
8.7.2 Neurotoxicity	14
9. EFFECTS ON HUMANS	14
10. EFFECTS ON OTHER ORGANISMS IN THE LABORATORY AND FIELD	14
10.1 Aquatic environment	15
10.2 Terrestrial environment	17
11. EFFECTS EVALUATION	17
11.1 Evaluation of health effects	17
11.1.1 Hazard identification and dose-response assessment	17
11.1.2 Criteria for setting guidance values for TBTO	17
11.1.3 Sample risk characterization	17
11.2 Evaluation of environmental effects	18
12. PREVIOUS EVALUATIONS BY INTERNATIONAL BODIES	18

13.	HUMAN HEALTH PROTECTION AND EMERGENCY ACTION	18
13.1	Human health hazards	18
13.2	Advice to physicians	19
13.3	Health surveillance advice	19
13.4	Spillage	19
14.	CURRENT REGULATIONS, GUIDELINES, AND STANDARDS	19
	INTERNATIONAL CHEMICAL SAFETY CARD	20
	REFERENCES	22
	APPENDIX 1 — SOURCE DOCUMENTS	25
	APPENDIX 2 — CICAD PEER REVIEW	25
	APPENDIX 3 — CICAD FINAL REVIEW BOARD	26
	RÉSUMÉ D'ORIENTATION	27
	RESUMEN DE ORIENTACIÓN	29