

## TABLE OF CONTENTS

FOREWORD.....	1
1. EXECUTIVE SUMMARY .....	4
2. IDENTITY AND PHYSICAL/CHEMICAL PROPERTIES .....	5
3. ANALYTICAL METHODS .....	5
4. SOURCES OF HUMAN AND ENVIRONMENTAL EXPOSURE.....	6
5. ENVIRONMENTAL TRANSPORT, DISTRIBUTION, AND TRANSFORMATION.....	7
5.1 Air.....	7
5.2 Water.....	7
5.3 Soil.....	8
6. ENVIRONMENTAL LEVELS AND HUMAN EXPOSURE.....	8
6.1 Environmental levels .....	8
6.1.1 Air .....	9
6.1.2 Water.....	9
6.1.3 Sediment.....	9
6.1.4 Soil .....	9
6.1.5 Biota.....	9
6.2 Human exposure .....	10
6.2.1 Food .....	10
6.2.2 Consumer products.....	10
6.2.3 Air and drinking-water.....	10
6.2.4 Human tissues .....	11
7. COMPARATIVE KINETICS AND METABOLISM IN LABORATORY ANIMALS AND HUMANS.....	11
7.1 Human studies.....	11
7.2 Animal studies .....	12
7.3 Biological monitoring.....	13
8. EFFECTS ON LABORATORY MAMMALS AND <i>IN VITRO</i> TEST SYSTEMS.....	13
8.1 Single exposure.....	13
8.2 Irritation and sensitization.....	13
8.3 Short- to medium-term exposure .....	13
8.4 Long-term exposure and carcinogenicity.....	15
8.5 Genotoxicity and related end-points .....	15
8.6 Reproductive toxicity.....	16
8.6.1 Effects on fertility .....	16
8.6.2 Developmental effects.....	16
8.7 Immunological and neurological effects.....	17
8.8 Mode of action.....	17
9. EFFECTS ON HUMANS.....	18

10. EFFECTS ON OTHER ORGANISMS IN THE LABORATORY AND FIELD .....	18
10.1 Aquatic organisms .....	18
10.2 Terrestrial organisms .....	18
11. EFFECTS EVALUATION.....	20
11.1 Evaluation of health effects .....	20
11.1.1 Hazard identification and dose–response assessment.....	20
11.1.2 Criteria for setting tolerable intakes for diethyl phthalate .....	20
11.1.3 Sample risk characterization .....	20
11.1.4 Uncertainties in the analysis of health risks .....	20
11.2 Evaluation of environmental effects .....	21
12. PREVIOUS EVALUATIONS BY INTERNATIONAL BODIES.....	22
REFERENCES .....	23
APPENDIX 1 — SOURCE DOCUMENT .....	28
APPENDIX 2 — CICAD PEER REVIEW .....	28
APPENDIX 3 — CICAD FINAL REVIEW BOARD .....	29
APPENDIX 4 — OUTLINE OF THE SPECIES SENSITIVITY DISTRIBUTION METHOD (DUTCH STATISTICAL EXTRAPOLATION METHOD) USED TO DERIVE A GUIDELINE VALUE FOR DIETHYL PHTHALATE (DEP) FOR THE PROTECTION OF AQUATIC SPECIES .....	30
INTERNATIONAL CHEMICAL SAFETY CARD .....	31
RÉSUMÉ D'ORIENTATION.....	33
RESUMEN DE ORIENTACIÓN.....	35