

TABLE OF CONTENTS

| | |
|---|----|
| FOREWORD | |
| EXECUTIVE SUMMARY | 4 |
| 2. IDENTITY AND PHYSICAL/CHEMICAL PROPERTIES | 5 |
| 3. ANALYTICAL METHODS | 5 |
| 3.1 Workplace air monitoring | |
| 3.2 Biological monitoring . . . | 6 |
| 4. SOURCES OF HUMAN AND ENVIRONMENTAL EXPOSURE | 6 |
| 4.1 Natural sources . . . | 6 |
| 4.2 Production | 7 |
| 4.3 Use | 7 |
| 5. ENVIRONMENTAL TRANSPORT, DISTRIBUTION, AND TRANSFORMATION | |
| 6. ENVIRONMENTAL LEVELS AND HUMAN EXPOSURE | 8 |
| 6.1 Environmental levels | 8 |
| 6.2 Human exposure | 8 |
| 6.2.1 Inhalation exposure . . . | 8 |
| 6.2.2 Dermal exposure | 8 |
| 7. COMPARATIVE KINETICS AND METABOLISM IN LABORATORY ANIMALS AND HUMANS | 8 |
| 8. EFFECTS ON LABORATORY MAMMALS AND <i>IN VITRO</i> TEST SYSTEMS | 9 |
| 8. Single exposure | 9 |
| 8.1.1 Inhalation | 9 |
| 8.1.2 Oral | 9 |
| 8.1.3 Dermal | 9 |
| 8.2 Short-term exposure | 9 |
| 8.3 Medium-term exposure | 9 |
| 8.4 Long-term exposure and carcinogenicity | 10 |
| 8.5 Genotoxicity and related end-points | 11 |
| 8.5.1 Studies <i>in vitro</i> | 11 |
| 8.5.2 Studies <i>in vivo</i> | 12 |
| 8.6 Reproductive toxicity | 12 |
| 8.7 Irritation and sensitization | 12 |
| 9. EFFECTS ON HUMANS | 12 |
| 10. EFFECTS ON OTHER ORGANISMS IN THE LABORATORY AND FIELD | 13 |
| 11. EFFECTS EVALUATION | 13 |
| 11 Evaluation of health effects | 13 |
| 11.1.1 Hazard identification and dose-response assessment . . . | 13 |

| | | |
|--------|--|----|
| 11.1.2 | Criteria for setting tolerable intakes/concentrations or guidance values for bromoethane | 14 |
| 11.1.3 | Sample risk characterization | 14 |
| 11.1.4 | Uncertainties | 15 |
| 11.2 | Evaluation of environmental effects | 15 |
| 12. | PREVIOUS EVALUATIONS BY INTERNATIONAL BODIES | 15 |
| | REFERENCES | 16 |
| | APPENDIX 1 — SOURCE DOCUMENT | 19 |
| | APPENDIX 2 — CICAD PEER REVIEW | 19 |
| | APPENDIX 3 — CICAD FINAL REVIEW BOARD | 20 |
| | INTERNATIONAL CHEMICAL SAFETY CARD | 21 |
| | RÉSUMÉ D'ORIENTATION | 23 |
| | RESUMEN DE ORIENTACIÓN | 25 |