

DIRECTORATE-GENERAL
Environment, Nuclear Safety
and Civil Protection

XI/A/3

**Technical & Economical Study on the Reduction
(based on best available technology
not entailing excessive costs)
of Industrial Emissions from the
Pharmaceutical and Cosmetics Industry**

OCTOBER, 1991



Byrne Ó Cléirigh Limited
30a Westland Square
Pearse Street
Dublin 2, Ireland

CONTENTS

SUMMARY

- 1 STRUCTURE & ECONOMIC IMPORTANCE
- 2 DESCRIPTION OF PROCESSES
- 3 SCALE OF EMISSIONS
- 4 SOURCES OF EMISSIONS & CONTROL MEASURES AVAILABLE
- 5 PROPOSALS FOR BATNEEC
- 6 PROPOSALS FOR LIMIT VALUES FOR EMISSIONS TO AIR AND DISCHARGES TO WATER
- 7 MONITORING AND CONTROL

APPENDICES

- B-1 Photochemical Ozone Creation Potential (POCP) for 159 organic compounds
- B-2 List of Odour Threshold Values
- B-3 T A Luft Classes of Organic Compounds
- B-4 Equivalence factors for Dioxin Measurements
- B-5 Criteria For Toxicity
- B-6 T A Luft Classes of Carcinogenic,
- B-7 T A Luft Classes of Inorganic Dust Particles
- B-8 T A Luft Classes of Vaporous or Gaseous Inorganic Substances