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14016

# POLYCYCLIC AROMATIC HYDROCARBONS (PAHS)

Update

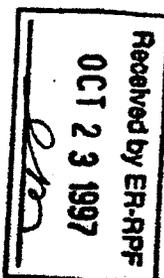
Prepared by:

Research Triangle Institute  
Under Contract No. 205-63-0808

Prepared for:

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
Public Health Service  
Agency for Toxic Substances and Disease Registry

August 1985



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*Poca Koton, Florida*

## UPDATE STATEMENT

A Toxicological Profile for Polycyclic Aromatic Hydrocarbons was released in December 1990. This edition supersedes any previously released draft or final profile.

Toxicological profiles are revised and republished as necessary, but no less than once every three years. For information regarding the update status of previously released profiles, contact ATSDR at:

Agency for Toxic Substances and Disease Registry  
Division of Toxicology/Toxicology Information Branch  
1600 Clifton Road NE, E-29  
Atlanta, Georgia 30333

## FOREWORD

This toxicological profile is prepared in accordance with guidelines developed by ATSDR and EPA. The original guidelines were published in the Federal Register on April 17, 1987. Each profile will be revised and republished as necessary.

The ATSDR toxicological profile succinctly characterizes the toxicologic and adverse health effects information for the hazardous substance being described. Each profile identifies and reviews the key literature (that has been peer-reviewed) that describes a hazardous substance's toxicologic properties. Other pertinent literature is also presented, but described in less detail than the key studies. The profile is not intended to be an exhaustive document; however, more comprehensive sources of specialty information are referenced.

Each toxicological profile begins with a public health statement, that describes in nontechnical language, a substance's relevant

Searchable, easy-to-access, current information on CD-ROM at an affordable price!

# ATSDR's Toxicological Profiles on CD-ROM

Author - Agency for Toxic Substances Disease Registry

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[Description](#) | [System Requirements](#) | [Contents](#) | [Audience](#) | [FREE OFFER!](#) | [Publication Information and Price](#)

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## Description

Previously available only as hard copy, ATSDR's **Toxicological Profiles on CD-ROM** consists of all *final* ATSDR toxicological profiles, which are extensively peer-reviewed, covering the toxicological effects of hazardous substances, chemicals, and compounds. It contains more than 20,000 pages worth of comprehensive, up-to-date, easy-to-use data on mitigation of health effects, data gaps, and all available health data. The CD-ROM volume is fully indexed and can be searched easily and across profiles.

**ATSDR's Toxicological Profiles on CD-ROM** is the most complete database of toxicological and epidemiological information and is the only one organized by route of exposure - inhalation, oral, and dermal. Each profile includes an examination, summary, and interpretation of available toxicological and epidemiological data evaluations on the hazardous substance, including environmental fate; a determination of the levels of significant human exposure for the substance and the associated acute, intermediate, and chronic health effects; and, where appropriate, an identification of toxicological testing needed to identify the types or levels of exposure that may present significant risk of adverse health effects in humans.

## Benefits of CD-ROM Version

- Considerable cost savings over the traditional printed format
- Readily available information on 110 of the most important chemicals found at hazardous waste sites
- More than 20,000 pages worth of text, tables, and figures
- Complete text that can be searched by single words, phrases, or combinations of words

## Searching Facilities

- Every word of the more than 20,000 pages worth of information is indexed
- Text can be searched using single words, phrases, or combinations of words using Boolean operators (i.e., "and," "or," "not") and proximity limits (e.g., within 10 words of one another)
- Compounds, authors, specific health effects, and routes of exposure can be searched individually or in combination
- All related information, in one profile or in a combination of profiles, is returned at the user's request

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## System Requirements

- IBM PC-compatible computer, 386 or higher
- CD-ROM drive
- Windows 3.1 (or higher)

- A minimum of an 80386 CPU
- A minimum of 4 megabytes of RAM
- At least 16-color display

While this product is supported by CRC Press as a "Windows" product, it can be operated on a Macintosh. For the "Mac" user:

1. Insert the CD-ROM.
2. Drag the "mac" folder to the hard drive.
3. Open the "mac" folder.
4. Click to start the DynaText application.
5. Choose the ATSDR Profiles from the title list.

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## **Audience**

### **Who Can Benefit from ATSDR's Toxicological Profiles on CD-ROM?**

- Toxicologists
- Principal responsible parties (PRPs, or companies paying for cleanup at Superfund sites)
- Environmental attorneys
- Public health officials/departments
- Environmental chemists and toxicologists
- Industrial hygienists
- Chemical companies
- Consultants
- Libraries
- All research laboratories

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See for yourself how powerful this database is. Simply return the order form to request a free trial. You'll get a full working copy of this database on CD - yours to use for a full 30-days! To keep this valuable research tool, simply pay the invoice; otherwise, just return the program. There's no obligation.

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## **Contents**

Each Profile contains:

### **Public Health Statement**

*Provides Nontechnical Description of:*

- The Hazardous Substance
- Medical Tests to Determine Exposure
- Federal Recommendations to Protect Human Health

## Health Effects

- Introduction
- Discussion of Health Effects by Route of Exposure
  - *Inhalation Exposure*
  - *Oral Exposure*
  - *Dermal Exposure*
- Relevance to Public Health
- Levels in Human Tissues and Fluids Associated with Health Effects
- Levels in the Environment Associated with Levels in Human Tissues and/or Health Effects
- Mechanism of Action of Mitigating Effects
- Toxicokinetics
  - *Absorption*
  - *Distribution*
  - *Metabolism*
  - *Excretion*
- Interactions with Other Chemicals
- Populations that Are Unusually Susceptible
- Adequacy of the Database
  - *Existing Information on Health Effects*
  - *Data Needs*
  - *Ongoing Studies*

## Chemical and Physical Information

- Chemical Identity
- Physical and Chemical Properties

## Production, Import, Use, and Disposal

- Adequacy of the Database
  - *Data Needs*

## Potential for Human Exposure

- Overview
- Releases to the Environment
  - *Air*
  - *Water*
  - *Soil*
- Environmental Fate
  - *Transport and Partitioning*
  - *Transformation and Degradation*
- Levels Monitored or Estimated in the Environment
  - *Air*
  - *Water*
  - *Soil*
  - *Other Media*
- General Population and Occupational Exposure
- Populations with Potentially High Exposures
- Adequacy of the Database
  - *Data Needs*
  - *Ongoing Studies*

## Analytical Methods

- Biological Materials
- Environmental Samples
- Adequacy of the Database
  - *Data Needs*
  - *Ongoing Studies*

## **Regulations and Advisories**

## **References**

## **Glossary**

## **Appendix**

**The 110 Toxicological Profiles (and their ATSDR approval status) are:**

1. Acetone - Final
2. Acrolein - Final
3. Acrylonitrile - Final
4. Aldrin/Dieldrin - Final
5. Aluminum - Final
6. Ammonia - Final
7. Arsenic - Final
8. Asbestos - Final
9. Automotive Gasoline - Final
10. Barium - Final
11. Benzidine - Final
12. Beryllium - Final
13. Bis (2-chloroethyl) Ether - Final
14. Boron - Final
15. Bromomethane - Final
16. 1,3-Butadiene - Final
17. 2-Butanone - Final
18. Cadmium - Final
19. Carbon Tetrachloride - Final
20. Chlordane - Final
21. Chlorodibenzofurans - Final
22. Chlorobenzene - Final
23. Chloroethane - Final
24. Chloromethane - Final
25. Chromium - Final
26. Cobalt - Final
27. Copper - Final
28. Cresols - Final
29. DDT, DDE, DDD - Final
30. 1,2-Dibromo-3-chloropropane - Final
31. 1,2-Dibromoethane - Final
32. 1,4-Dichlorobenzene - Final
33. 3,3'-Dichlorobenzidine - Final
34. 1,1-Dichloroethane - Final
35. 1,2-Dichloroethane - Final
36. 1,1-Dichloroethene - Final
37. 1,3-Dichloropropene - Final
38. Diethyl Phthalate - Final
39. Di (2-ethylhexyl) Phthalate - Final
40. Di-N-Butyl Phthalate - Final

41. 1,3-Dinitrobenzene/i,3,5-Trinitrobenzene - Final
42. Dinitrocresols - Final
43. Dinitrophenols - Final
44. 2,4-Dinitrotoluene; 2,6-Dinitrotoluene - Final
45. 1,2-Diphenylhydrazine - Final
46. Disulfoton - Final
47. Endosulfan - Final
48. Ethylbenzene - Final
49. Fluorides, Hydrogen Fluoride, Fluorine - Final
50. Fuel Oils - Final
51. Heptachlor, Heptachlor Epoxide- Final
52. Hexachlorobutadiene - Final
53. Hexachlorocyclohexanes - Final
54. 2-Hexanone - Final
55. Isophorone - Final
56. Jet Fuels JP-4/JP-7 - Final
57. Lead - Final
58. Manganese - Final
59. Mercury - Final
60. Methoxychlor - Final
61. 4,4'-Methylenebis (2-Chloraniline) (MBOCA) - Final
62. Methylene Chloride - Final
63. Methyl Parathion - Final
64. Mirex and Chlordecone - Final
65. Naphthalene, 1-Methylnaphthalene, 2-Methynaphthalene - Final
66. Nitrobenzene - Final
67. Nitrophenols: 2-Nitrophenol/4-Nitrophenol - Final
68. N-Nitrosodi-N-propylamine - Final
69. N-Nitrosophenylamine - Final
70. OTTO Fuel II - Final
71. Pentachlorophenol - Final
72. Phenol - Final
73. Plutonium - Final
74. Polybrominated Biphenyls (PBB's) - Final
75. Polycyclic Aromatic Hydrocarbons (PAH's) - Final
76. Radium - Final
77. Radon - Final
78. RDX - Final
79. Silver - Final
80. Stoddard Solvent - Final
81. Tetryl - Final
82. Thallium - Final
83. Thorium - Final
84. Tin - Final
85. Toluene - Final
86. 1,1,1-Trichloroethane - Final
87. 1,1,2-Trichloroethane - Final
88. 2,4,6-Trichlorophenol - Final
89. 2,4,6-Trinitrotoluene - Final
90. Uranium - Final - Final
91. Vanadium - Final
92. Vinyl Acetate - Final
93. Xylene - Final
94. Zinc - Final
95. Benzene - Draft; Out for Public Comment
96. Carbon Disulfide - Draft; Out for Public Comment

97. Chloroform - Draft;Out for Public Comment
98. Creosote - Draft;Out for Public Comment
99. Cyanide - Draft;Out for Public Comment
100. 1,2-Dichloroethene - Draft;Out for Public Comment
101. Endrin - Draft;Out for Public Comment
102. Hexachlorobenzene - Draft;Out for Public Comment
103. Nickel - Draft;Out for Public Comment
104. Polychlorinated Biphenyls (PCB's) - Draft;Out for Public Comment
105. Selenium - Draft;Out for Public Comment
106. Tetrachloroethylene - Draft;Out for Public Comment
107. 1,1,2,2-Tetrachloroethane - Draft;Out for Public Comment
108. Toxaphene - Draft;Out for Public Comment
109. Trichloroethylene - Draft;Out for Public Comment
110. Vinyl Chloride - Draft;Out for Public Comment

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