

summary tabulation of selected epa activities concerning toxic chemicals



April 1976

**OFFICE OF TOXIC SUBSTANCES
U.S. ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460**

SUMMARY TABULATION OF SELECTED
EPA ACTIVITIES CONCERNING TOXIC CHEMICALS

by the
OFFICE OF TOXIC SUBSTANCES

U.S. ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

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INTRODUCTION

The tabulation in this Report summarizes EPA's current activities directed to selected toxic chemicals, with emphasis on current and near-term regulatory activities. Also, appropriate published references are identified which should help the interested reader understand the details of the activities.

Included in the tabulation are substances for which regulations or standards have been set or proposed under EPA's various regulatory authorities. Also included are substances which are being monitored or analyzed either pursuant to a Federal Register notice or through studies being conducted at the initiative of particular offices as part of their program activities. The comprehensive lists of substances addressed under Section 311 (spills) of the Federal Water Pollution Control Act and Section 3 (registration) of FIFRA/FEPCA are not included; however, indications are made where such substances appear pursuant to some other regulation or study. A detailed listing of chemicals registered pursuant to Section 211 (fuel additives) of the Clean Air Act is not included.

In some cases, a regulation will refer to a class of substances rather than individual chemicals. The class name is included in the appropriate place on the alphabetical list and, in addition, indications are made in the appropriate column for specific chemicals falling within that class when appropriate. An exception is that radioactive materials have been excluded from the list entirely.

Some EPA activities and some chemicals of concern may have been overlooked in the preparation of this initial Report. Hopefully, these oversights will be corrected in future revisions.

Key: * = includes compounds, F = Final, P = Proposed, U = Project Underway
C = Project Completed, M = Monitoring Required, S = Studies Being Done

[illegible]

	Nitrosamines	Organohalogens	Organosilicons	Organotins	Osmium	Palladium	Parathion	Particulates	Pentachlorophenol	Phenols	o-Phosphate	Phosphorus	Photochemical oxidants	Phthalate esters	Platinum	Polybrominated biphenyls	Polychlorinated biphenyls	Polychlorinated terphenyls	hydrocarbons	Potassium*
FEDERAL WATER POLLUTION CONTROL ACT																				
Effluent Guidelines (current) ¹					F	F				F		F				F				
Effluent Guidelines (future) ²	S								S	S				S			S		S	
Water Quality Criteria ³							P			P		P		P			P			P
Standard Sampling and Analysis Methods ⁴							F			F	F	F					F			F
Toxic Effluent Standards (initial) ⁵							S										P			
Spills (partial list) ⁶							P		P	P		P					P			P

CLEAN AIR ACT

Criteria Air Pollutants ⁷								F					F							
New Source Performance Standards ⁸								F												
Hazardous Air Pollutant Standards ⁹																				
Registered Fuel Additives (partial list) ¹⁰		F										F								
Regulated Fuel Additives ¹¹												F								
Preferred Standards Path Analysis ¹²																	C		C	
Preliminary Air Pollution Assessments ¹³	U													U						
Mobile Vehicle Emissions Standards ¹⁴	S					S				S	S				S			S		

MARINE PROTECTION, RESEARCH, AND SANCTUARY ACT

Prohibited Except Trace Amounts ¹⁵		F																		
Special Care Required ¹⁶			F							F										

SAFE DRINKING WATER ACT

National Interim Primary Standards ¹⁷																				
Monitoring Programs ¹⁸	M	S					S	M	S				S	S			M		M	

PESTICIDE LAWS (FIFRA/FEPCA/FDCA)

Registered Pesticides (partial list) ¹⁹		F	F	F			F	F	F		F						F	F	F	F
Candidates for Rebuttable Presumption ²⁰								P												
Cancellation/Suspension ²¹																				

RESEARCH ASSESSMENTS

STAR Documents ²²	U						P				P						U		C	
NAS:MBEEP/STAEP Programs ²³							U				U								C	
REEP Program ²⁴									U								U			
Other In-depth Studies ²⁵																				

OTHER MULTIMEDIA ACTIVITIES

Action Plans ²⁶																	U			
Intensive Studies ²⁷			U														U	U	U	

	Rhodium	Ruthenium	Selenium*	Sevin	Silver*	Sodium	Styrene	Sulfate*	Sulfide	Sulfite	Sulfur dioxide	Sulfuric acid	Surfactants	Terpenes	2,3,7,8-Tetrachlorodibenzo-p-dioxin	Tetrachloroethylene	Thallium*	Tin	Titanium dioxide	Toluene	Toxaphene
FEDERAL WATER POLLUTION CONTROL ACT																					
Effluent Guidelines (current) ¹	F	F	F		F				F				F					F			
Effluent Guidelines (future) ²			S		S		S							S	S	S	S			S	S
Water Quality Criteria ³			P		P	P	P	P	P											P	P
Standard Sampling and Analysis Methods ⁴			F	F	F	F		F	F	F			F				F	F	F		F
Toxic Effluent Standards (initial) ⁵			S	S																	P
Spills (partial list) ⁶			P			P						P								P	P

CLEAN AIR ACT

Criteria Air Pollutants ⁷											F	F									
New Source Performance Standards ⁸											F	F									
Hazardous Air Pollutant Standards ⁹																					
Registered Fuel Additives (partial list) ¹⁰													F								
Regulated Fuel Additives ¹¹																					
Preferred Standards Path Analysis ¹²																					
Preliminary Air Pollution Assessments ¹³								C	C	C						U				U	
Mobile Vehicle Emissions Standards ¹⁴	S	S					S		S	S										S	

MARINE PROTECTION, RESEARCH, AND SANCTUARY ACT

Prohibited Except Trace Amounts ¹⁵																					
Special Care Required ¹⁶			F																F		

SAFE DRINKING WATER ACT

National Interim Primary Standards ¹⁷			F	F																	F
Monitoring Programs ¹⁸			M	M	S	S				S	S										S

PESTICIDE LAWS (FIFRA/FEPCA/FDCA)

Registered Pesticides (partial list) ¹⁹			F	F	F	F		F	F	F	F			U	F	F	F			F	F
Candidates for Rebuttable Presumption ²⁰																					P
Cancellation/Suspension ²¹																					

RESEARCH ASSESSMENTS

STAR Documents ²²			U																		
NAS:MBEEP/STAEP Programs ²³			C																		
REEP Program ²⁴			U																		U
Other In-depth Studies ²⁵																					

OTHER MULTIMEDIA ACTIVITIES

Action Plans ²⁶																					
Intensive Studies ²⁷																	U	C			

	Zinc*	P
o-Xylene		F
Vinylidene chloride		S
Vinyl chloride	S	P
Vanadium	F	F
Trichlorofluoromethane		S
Trichloroethylene	S S S	
1,1,1-Trichloroethane	S	
1,2,4-Trichlorobenzene		
2,4,5-Trichlorophenoxy-propionic acid	F	
FEDERAL WATER POLLUTION CONTROL ACT		
Effluent Guidelines (current) ¹		F
Effluent Guidelines (future) ²		S
Water Quality Criteria ³		P
Standard Sampling and Analysis Methods ⁴	F	F
Toxic Effluent Standards (initial) ⁵		S
Spills (partial list) ⁶	P	P

FOOTNOTES

1. Effluent Guidelines currently in effect and in the proposal stage require some limitations on discharges of some chemicals in selected industries. Effluent Guidelines are end-of-pipe limitations, and are not necessarily transferrable from one industry to another. The relevant references are as follows:

"Summary of Final Effluent Limitations Guidelines for Existing Sources and Standards of Performance for New Sources", EPA 330/9-74-001, August 1974.

40 CFR 401, Revised as of July 1, 1975.

39 FR 31485, August 28, 1974, Meat Products (Proposed).

40 FR 4101, January 27, 1975, Phosphate Manufacturing (Proposed).

40 FR 8030, February 24, 1975, Ferroalloy Manufacturing (Proposed).

40 FR 8514, February 27, 1975, Nonferrous Metals Manufacturing (Proposed).

40 FR 18130, April 24, 1975, Electroplating Industry (Proposed).

40 FR 18150, April 24, 1975, Poultry Processing Products (Proposed).

40 FR 22402, May 22, 1975, Inorganic Chemicals Manufacturing (Proposed).

40 FR 36707, August 21, 1975, Iron and Steel Manufacturing (Proposed).

40 FR 41299, September 5, 1975, Pulp, Paper, and Paperboard (Proposed).

40 FR 48652, October 16, 1975, Mineral Mining and Processing (Proposed).

40 FR 48830, October 17, 1975, Coal Mining (Proposed).

40 FR 51722, November 6, 1975, Ore Mining and Dressing (Proposed).

41 FR 902, January 5, 1976, Organic Chemicals Manufacturing (Proposed).

In addition, the Organic Chemicals and Inorganic Chemicals Manufacturing Point Source Categories are subdivided according to, and lists are given for, significant products and processes. Many products and by-products from these Point Source Categories have troublesome public health implications. By-products have not been listed with the regulations in the Federal Register. However, some of the problematic products have been listed in 41 FR 902, January 5, 1976, are as follows:

acrylonitrile
adiponitrile
benzoic acid
butyl alcohol
citronellol
cumene
hydrazine
ionone

isopropanol
maleic anhydride
methyl salicylate
nitroaniline
phthalic anhydride
tannic acid
p-xylene

A list of additional chemicals of concern may be obtainable by reviewing the "Development Documents for the Interim Final Effluent Limitations and New Source Performance Standards."

2. Report in preparation. Office of Water Planning and Standards. Effluent Guidelines are end-of-pipe limitations, and are not necessarily transferrable from one industry to another.
3. Quality Criteria for Water draft, Office of Water Planning and Standards, October 10, 1975. Water Quality Criteria are levels for receiving water.
4. 40 CFR 136.3, Revised as of July 1, 1975.
Office of Research and Development, Methods Development and Quality Assurance Research Laboratory.
5. 38 FR 35388, December 27, 1973.
6. 40 FR 59960, December 30, 1975.
7. 36 FR 8186, April 30, 1971.
8. 40 CFR 60.83, "Standards of Performance for Sulfuric Acid Plants."
Revised as of July 1, 1975.

40 FR 33152, August 6, 1975, "Standards of Performance for Five Categories of Sources in the Phosphate Fertilizer Industry."

41 FR 2332, January 15, 1976, "Standards of Performance for Primary Copper, Zinc and Lead Smelters."
9. 38 FR 8820, April 6, 1973.
39 FR 38064, October 25, 1974.
40 FR 48292, October 14, 1975.
40 FR 59532, December 24, 1975.
10. Many additional chemicals not indicated are undoubtedly included in the fuel additives reported to the Office of Research and Development.
11. 40 CFR 80, Revised as of July 1, 1975.
12. Office of Air Quality Planning and Standards.
13. Office of Air Quality Planning and Standards.
14. 40 CFR 85 and 86. Revised as of July 1, 1975.
15. 38 FR 28610, October 15, 1973.
16. 38 FR 28610, October 15, 1973.
17. 40 FR 59566, December 24, 1975.
18. 40 FR 59566, December 24, 1975.
Office of Water Supply.
19. Office of Pesticide Programs.

20. Office of Pesticide Programs.
21. 37 FR 13369, July 7, 1972 (DDT).
39 FR 8377, March 5, 1974 (DDT).
40 FR 15934, April 8, 1975 (DDT).
40 FR 37246, October 18, 1974 (Aldrin/Dieldrin).
41 FR 7552, February 19, 1976 (Chlordane/Heptachlor).
39 FR 14753, April 26, 1974 (Vinyl Chloride)
22. Office of Research and Development. STAR documents currently in preparation should be completed during 1976.
23. Office of Research and Development. MBEEP refers to the Committee on Medical and Biological Effects of Environmental Pollutants; STAEP refers to the Coordinating Committee on Scientific and Technical Assessment of Environmental Pollutants. Documents are published (under EPA contract) and distributed by the National Academy of Sciences, National Research Council.
24. REEP refers to Reports on the Environmental Effects of Pollutants - a series of studies being done by the Oak Ridge National Laboratory for EPA's Municipal Environmental Research Laboratory in Cincinnati.
25. Office of Research and Development, Office of Health and Ecological Effects.
26. Report in preparation. Office of Toxic Substances.
27. Office of Toxic Substances.

OTHER NOTES

Additional lists of problem chemicals may be found in, or developed from, the following sources:

1. "Activities of Federal Agencies Concerning Selected High Volume Chemicals", Office of Toxic Substances, U.S. Environmental Protection Agency, Washington, D.C. 20460, (EPA 560/4-75-001).
2. "Preliminary Assessment of Suspected Carcinogens in Drinking Water: Report to Congress" and "Appendices", Office of Toxic Substances, December, 1975.
3. "Identification of Organic Compounds in Effluents from Industrial Sources", Office of Toxic Substances, April 1975 (EPA 560/3-75-002).
4. "Registry of Toxic Effects of Chemical Substances, 1975 Edition", National Institute for Occupational Safety and Health, June, 1975.
5. "Suspected Carcinogens: A Subfile to the NIOSH Toxic Substances List", DHEW publication No. (NIOSH) 75-188. (Approximately 1500 Chemicals are listed.)
6. A list of chemicals associated with human cancer was presented by the International Agency for Research on Cancer at the Conference on Occupational Carcinogenesis, held by the National Academy of Sciences in March, 1975. Proceedings are due to be published in early 1976.
7. The Office of Solid Waste Management Programs is developing a series of reports entitled "Assessment of Industrial Hazardous Waste Practices" which contain information on the hazardous wastes from various industrial segments and indicate chemicals which are of concern. The industries being studied are as follows:

Group I

1. Storage and Primary Batteries
2. Inorganic Chemicals Industry
3. Pharmaceutical Industry
4. Organic Chemicals, Pesticides, and Explosives Industries
5. Paint and Allied Products Industry
6. Metal Smelting and Refining Industry
7. Metals Mining Industry
8. Electroplating and Metal Finishing Industries
9. Petroleum Industry

Group II

1. Tanneries Industry
2. Textiles Industry
3. Rubber and Plastics Industry
4. Special Machinery Industry

8. The list of "Chemicals Being Tested for Carcinogenicity by the Bioassay Operations Segment Carcinogenesis Program, DCCP, NCI" is available from:
9. Chemicals for which NIOSH has proposed development of criteria documents are listed in 41 FR 802, 1/5/76. A "Schedule of Development for Criteria Documents" and further information are available from:

Carcinogen Bioassay and Program Resources Branch
National Cancer Institute
Landow Building, Room C325
Bethesda, Maryland 20014

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and Standards Development
National Institute for Occupational
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