

1976 514 EMISSION INVENTORY
FOR WVa. APCC

UCC 099131

ATTACHMENT IV

A PRIORITIZED RANKING OF THE TOP 62 HAZARDOUS CHEMICAL VAPORS
EPA/GCA

- | | |
|---|----------------------------|
| 1. FORMALDEHYDE | 41. TOLUENE |
| 2. HYDROGEN SULFIDE | 42. NITROBENZENE |
| ✓3. VINYL CHLORIDE | ✓43. ETHYL ACETATE |
| 4. HYDROFLUORIC ACID | 44. ISOBUTYL ALCOHOL |
| 5. DIMETHYLAMINE | 45. CYCLOHEXANONE |
| 6. HYDROCYANIC ACID | 46. CHLOROBENZENE |
| 7. CHLOROMETHANE | ✓47. METHYLISOBUTYLKETONE |
| 8. 1,1-DICHLOROETHYLENE | ✓48. N-BUTYLALCOHOL |
| 9. CHLOROACETALDEHYDE | 49. PHTHALIC ANHYDRIDE |
| ✓10. ACRYLONITRILE | 50. ETHYL BENZENE |
| 11. TETRAETHYL LEAD | 51. CUMENE |
| 12. CARBON DISULFIDE | 52. XYLENES |
| 13. CARBON TETRACHLORIDE | 53. CRESOLS |
| 14. CHLOROFORM | 54. ACRYLAMIDE |
| 15. TOLUENE DIISOCYANATE | 55. HEXACHLOROETHANE |
| ✓16. BENZENE | 56. CRESYLIC ACID |
| 17. 1-CHLORO-2,3-EPOXYPROPANE | 57. 1,2,3-TRICHLOROPROPANE |
| 18. 1,2 DICHLOROETHANE | 58. PHENOL |
| 19. FORMIC ACID | 59. ACRYLIC ACID |
| ✓20. ETHYL ACRYLATE | 60. O-DICHLOROBENZENE |
| ✓21. ACETALDEHYDE | 61. NAPHTHALENE |
| 22. PYRIDINE | 62. P-DICHLOROBENZENE |
| 23. METHYLENE CHLORIDE | |
| 24. 1,1,2-TRICHLOROETHANE | |
| 25. ACETONITRILE | |
| 26. TRICHLOROETHYLENE | |
| 27. t-1,2-DICHLOROETHYLENE | |
| 28. DIETHYL ETHER | |
| 29. MALEIC ANHYDRIDE | |
| 30. 1,1,2,3-TETRACHLOROETHANE | |
| 31. 1,1-DICHLOROETHANE | |
| 32. BENZYL CHLORIDE | |
| 33. TRICHLOROFLUOROMETHANE | |
| ✓34. METHYL ALCOHOL | |
| 35. TETRACHLOROETHYLENE | |
| ✓36. METHYLETHYLKETONE | |
| 37. ANILINE | |
| 38. 1,1,1-TRICHLOROETHANE | |
| ✓39. ACETONE | |
| 40. 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | |

OTHER IMPORTANT GROUPS

C2-C10 ALKANES AND ALKENES
C6-C10 AROMATICS
CHLORINATED HYDROCARBONS
ALDEHYDES
KETONES
SULFUR HYDROCARBONS

OFFICIAL LISTING
CHEMICALS FROM WVAPCC SURVEY

FBI/GCA

	<u>Chemical</u>	<u>M#/Year</u>
39	Acetone	2846
	Methyl Acetate	2556
34	Methanol	1443
	Isopropanol	<u>784</u> 78% of Total
	Propylene Oxide	572
	n-Pentane	387
	Vinyl Acetate	159
	* Ethanol	<u>149</u> 90% of Total
	Ethane	137
	Vinyl Methyl Ether	120
21	Acetaldehyde	102
	Butyl Chloride	<u>73</u> 95% of Total
	Pentene	53
	2-Ethyl Butyraldehyde	45
	Ethylene Oxide	42
10	** Acrylonitrile ✓	39
	Valeraldehyde	36
36	Methyl Ethyl Ketone	28
	Propionaldehyde	28
	Butyl Formate	23
	Butane	21
	3-Pentyl Formate	20
	Ethylene	20
43	Ethyl Acetate	18
	Diethyl Ketone	16

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OFFICIAL LISTING
CHEMICALS FROM WVAPCC SURVEY (cont.)

EPA/GCA

	<u>Chemicals</u>	<u>M#/Year</u>
	Isophorone	14
	Isopropyl Acetate	<u>12</u> 99% of Total
	Acetic Anhydride	9
	2-Methyl Butyraldehyde	8
	Dimethylacetal	7
	n-Heptane	7
48	n-Butanol	6
3	**Vinyl Chloride ✓	6
	Butyl Acetate	6
	Isobutyl Acetate	5
	n-Propanol	5
	n-Propyl Acetate	4
	Mesityl Oxide	3
	Propane	3
	Methyl Pentaldehyde	2
	Butyl Acrylate	2
	Ethylene Diamine	2
	n-Paraffins	2
	Methane	2
	*Dioxane	1
	p-Amyl Alcohol	1
	n-Butyraldehyde	1
	Ethyl Butyl Ketone	.920
	Ethyl Formate	.920
	Valeric Acid	.920
	Ethyl Crotonaldehyde	.920

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OFFICIAL LISTING
CHEMICALS FROM WVAPCC SURVEY (cont.)

E/GCA	<u>Chemicals</u>	<u>M#/Year</u>
	Isopentanoic Acid	.840
	Diisobutyl Carbinol	.800
	Diisobutyl Ketone	.800
	Diacetone Alcohol	.790
47	Methyl Isobutyl Ketone	.590
	Isobutyraldehyde	.520
	Propionic Acid	.400
	Diethylamine	.320
	Dimethylaminopropylamine	.280
	Propiophenone	.178
	Diethyl Carbitol	.150
	Butene	.100
	Cellosolve Acetate	.080
	Cellosolve Solvent	.080
	Hexanol	.080
16	*Benzene ✓	.060
	2-Ethyl Hexane Diol	.060
	2,-4 Methyl-1,4 Dioxalane	.050
	C-14 Ketone	.040
	Hexane	.040
	Methyl Propionate	.040
	Tetramethylbutanediamine	.040
	Butyl Cellosolve	.030
	H-221(Polygolcol Diamine)	.030
0	Ethyl Acrylate ✓	.020
	2-Ethyl Hexoic Acid	.020

OFFICIAL LISTING
CHEMICALS FROM WAPCC SURVEY (cont.)

<u>Chemicals</u>	<u>M#/Year</u>
Bis-aminopropylmethylamine	.010
Tetraethylene Glycol	.010
Trimethylamine	.010
Total	9840

*Listed in "Suspected Carcinogens, a Subfile of the NIOSH Toxic Substances List, 1975"

**OSHA regulated carcinogens or suspect carcinogens