

Chesapeake Bay Basin Comprehensive List of Toxic Substances



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April 1992

Acknowledgements

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This document was produced with the assistance of the Chesapeake Bay Program Toxics and Living Resources Subcommittees' joint Criteria and Standards Workgroup.

Comprehensive List

The Chesapeake Bay Basin Comprehensive List of Toxic Substances is a compilation of the toxic substances detected in, released, or applied to all media (water, soil, sediment, tissue and air) within the Chesapeake Bay basin. A substance's inclusion in this list does not constitute evidence of potential or existing environmental impact. It merely documents a finding or measurement in some media at some point in time. The primary sources of information for the list include toxic substances:

- documented as having been detected in microlayer, water, sediment, finfish and/or shellfish tissue samples collected in the Chesapeake Bay basin through past and ongoing research and monitoring programs;
- documented as having been detected in atmospheric deposition as sampled within the Chesapeake Bay basin;
- documented as being released to surface waters, air, groundwater and or land within the Chesapeake Bay basin from industrial and municipal wastewaters, urban runoff shipping spills; and/or,
- documented as being applied as a pesticide product within the Chesapeake Bay basin.

This Comprehensive List serves two specific purposes:

- 1) It is the central listing of toxic substances around which the Chesapeake Bay Program's Toxics Data Base has been structured and organized.
- 2) It defines the "universe" of toxic substances from which future revisions and updates to the Chesapeake Bay Toxics of Concern List will be ranked and identified.

The Comprehensive List is being published as a document to meet other potential uses by the Chesapeake Bay Program agencies such as defining parameter lists for toxics monitoring programs.

Chemical and Reference Documentation

In order to ensure the accurate identification of the substances on the Chesapeake Bay Basin Comprehensive List of Toxic Substances, a unique Chemical Abstracts System (CAS) Registry Number has been assigned to each substance, where possible. This system is maintained by the American Chemical Society which reviews each new chemical submission. The CAS Registry Number is used by the Chesapeake Bay

Program as the primary toxic substance identification number in the Program's Toxics Data Base. Where CAS numbers could not be identified, the Bay Program assigned a number beginning with the prefix 'CAS'. When valid CAS numbers are identified, they will replace the CBP assigned number. Carbon, nitrogen and phosphorus compounds commonly reported as conventional pollutants (e.g. total carbon, nitrate, and phosphate) were excluded from this list.

The references used to document the substances on the Chesapeake Bay Basin Comprehensive List of Toxics Substances include computerized data sets and hard copy reports and published journal articles on Bay studies sponsored by federal and state agencies, and private institutions. Although priority was given to final published reports as source documents, some of the references include interim reports or literature citations referring to final draft documents. Each reference was assigned a unique Reference Number accompanied with a full citation (see List of References).

Comprehensive List Structure

The Chesapeake Bay Basin Comprehensive List of Toxic Substances, compiled as of April, 1992, is arranged alphabetically by the name assigned by the International Union of Pure and Applied Chemistry (IUPAC), and in some cases by its common or more publicly recognized name.

CAS Number - This nine-digit number is the Chemical Abstracts Service (CAS) Registry Number assigned to each substance. Key documents used to identify individual CAS numbers include:

- "The Merck Index" (Eleventh Edition),
- the U.S. EPA Office of Toxic Substances', "Toxic Substances Control Act (TSCA) PL 94-469 Candidate List of Chemical Substances",
- the U.S. EPA Office of Research and Development's, "Environmental Monitoring Methods Index" (EMMI) formerly referenced as the "List of Lists", and
- the "Farm Chemicals Handbook".

For the purposes of the relational storage of the Comprehensive List of Toxic Substances, and its relational storage within the Chesapeake Bay Program's Toxics Data Base, leading zeros have been added and hyphens have been excluded from the original CAS number format.

Chemical Name - To maximize the reader's familiarity with the substances on the Chesapeake Bay Basin Comprehensive List of Toxic Substances, efforts have been made to use the more commonly used, simple chemical name provided by IUPAC. In

the case of pesticides, it was decided to use the specific active ingredient rather than the more familiar trade name. A decision was made to limit the chemical name to 30 characters in length for this document, thus in some cases, only the partial name is printed.

Reference Number - This number refers to the specific document, report, journal article or Chesapeake Bay Program toxics data set in the List of References which contains the documentation for including the specific toxic substance on the Comprehensive List.

Update Schedule

The Chesapeake Bay Basin Comprehensive List of Toxic Substances and List of References will be updated periodically when additional published reports or articles, and additional toxics data are acquired and documented by the Chesapeake Bay Program Office. Each new source of data will be assigned a unique reference number for inclusion in the List of References. Each substance in a new reference will be compared to the comprehensive list of toxic substances and a separate list of synonyms. If a toxic substance is already on the list, then the new reference citation will be added to the existing comprehensive list's documentation for that substance. If the substance is determined to be a 'new' toxic substance, it will be added to the comprehensive list by its IUPAC or active ingredient name, along with its appropriate CAS number if available, and reference number. Any new toxics data received by the Chesapeake Bay Program will be documented, standardized and incorporated into the Program's toxics data base.

Recommended corrections or additions to, or requests for access to the computerized version of the Chesapeake Bay Basin Comprehensive List of Toxic Substances should be directed to:

Toxics Coordinator
U.S. Environmental Protection Agency
Chesapeake Bay Program Office
410 Severn Ave., Suite 109
Annapolis, MD 21403

Chesapeake Bay Basin Toxic Substances List

CAS Number	Chemical Name	Reference Number (Ref. No.)
CAS000001	1,1' OXYBISBENZENE (DIPHENYL E	79, 142
000630206	1,1,1,2-TETRACHLOROETHANE	215
000071556	1,1,1-TRICHLOROETHANE	51, 131, 190, 191, 196, 202, 207, 215, 243, 244
CAS000002	1,1,1-TRICHLOROETHYLENE	18
000079345	1,1,2,2-TETRACHLOROETHANE	51, 215
000079005	1,1,2-TRICHLOROETHANE	51, 215
000075343	1,1-DICHLOROETHANE	51, 215
000634662	1,2,3,4-TETRACHLOROBENZENE	187
000634902	1,2,3,5-TETRACHLOROBENZENE	187
000087616	1,2,3-TRICHLOROBENZENE	187, 215
000096184	1,2,3-TRICHLOROPROPANE	215
000634366	1,2,3-TRIMETHOXYBENZENE	215
000095943	1,2,4,5-TETRACHLOROBENZENE	187, 215
000120821	1,2,4-TRICHLOROBENZENE	187, 215, 241
000095636	1,2,4-TRIMETHYLBENZENE	190, 243
CAS000003	1,2,9-TRIMETHYL 1,2,3,4 TETRAH	79
000096128	1,2-DIBROMO-3-CHLOROPROPANE	35, 215
000106934	1,2-DIBROMOETHANE (EDB)	35, 42, 215
000095501	1,2-DICHLOROBENZENE	187, 190, 215, 241, 243, 244
000107062	1,2-DICHLOROETHANE	51, 190, 215, 243
000078875	1,2-DICHLOROPROPANE	51, 215
000122667	1,2-DIPHENYLHYDRAZINE	215
CAS000004	1,2-ETHANEDIOL, MONOACETATE	43
CAS000005	1,2-TRANS-DICHLOROETHYLENE	18
001464535	1,2:3,4-DIEPOXYBUTANE	215
000108703	1,3,5-TRICHLOROBENZENE	187
000291214	1,3,5-TRITHIANE	215
000108463	1,3-BENZENEDIOL (RESORCINOL)	215
000106990	1,3-BUTADIENE	190, 243
000096231	1,3-DICHLORO-2-PROPANOL	215
000541731	1,3-DICHLOROBENZENE	187, 215, 241, 244
000142289	1,3-DICHLOROPROPANE	215
000542756	1,3-DICHLOROPROPYLENE	42, 192
000106467	1,4-DICHLOROBENZENE	187, 215, 241, 244
000100254	1,4-DINITROBENZENE	215
000123911	1,4-DIOXANE	190, 215, 243
000130154	1,4-NAPHTHOQUINONE	215
002243621	1,5-NAPHTHALENEDIAMINE	215
CAS000369	1,6,7-TRIMETHYLNAPHTHALENE	242
001730376	1-METHYLFLUORENE	215
000090120	1-METHYLNAPHTHALENE	4, 77, 78, 81, 82, 99, 128, 198, 242
000832699	1-METHYLPHENANTHRENE	77, 99, 128, 215, 242
000605027	1-PHENYLNAPHTHALENE	80, 215
CAS000006	11H-BENZO[A]FLUORENE	43
CAS000007	17-PENTATRIACONTENE	43
CAS000008	2(5H)-FURANONE, 5,5-DIMETHYL	43

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CAS Number	Chemical Name	Reference Number (Ref. No.)
CAS000009	2,2',3,3',4,4',5,5'-HEXACHLORO	60
CAS000010	2,2',4,4'-TETRACHLOROBIPHENYL	60
002437798	2,2,4,4'-TETRACHLOROBIPHENYL	241
CAS000011	2,2,9 TRIMETHYL 1,2,3,4 TETRAH	79
CAS000012	2,3,4,5',6-PENTACHLOROBIPHENYL	60
000058902	2,3,4,6-TETRACHLOROPHENOL	198, 215
002245387	2,3,5-TRIMETHYLNAPHTHALENE	77, 99
000933755	2,3,6-TRICHLOROPHENOL	215
000243174	2,3-BENZOFUORENE	99, 215
000095158	2,3-BENZOTHIOPHENE	4, 215
CAS000013	2,3-BUTANEDIONE	43
000608275	2,3-DICHLOROANILINE	215
003209221	2,3-DICHLORONITROBENZENE	215
000093765	2,4,5-T	33, 35, 90, 215
000093721	2,4,5-TP - PHENOXY ACID	35, 215
016606023	2,4,5-TRICHLOROBIPHENYL	241
000095954	2,4,5-TRICHLOROPHENOL	215, 241
000137177	2,4,5-TRIMETHYLANILINE	215
000118796	2,4,6 TRIBROMOPHENOL	241
000088062	2,4,6-TRICHLOROPHENOL	198, 215, 241
000094757	2,4-D	18, 33, 35, 42, 90, 180, 190, 192, 206, 214, 215, 237
000094826	2,4-DB	42, 192, 237
000095807	2,4-DIAMINOTOLUENE	215
000120832	2,4-DICHLOROPHENOL	190, 198, 215, 241
000105679	2,4-DIMETHYLPHENOL	207, 215, 241
000051285	2,4-DINITROPHENOL	190, 207, 208, 215, 241
000121142	2,4-DINITROTOLUENE	180, 215, 241
000120365	2,4-DP (DICHLORPROP)	42
CAS000014	2,4-PENTANEDIOL, 2-METHYL	43
CAS000015	2,6-DI-TERT-BUTYLBENZOQUINONE	215
000099309	2,6-DICHLORO-4-NITROANILINE	215
000087650	2,6-DICHLOROPHENOL	215
000581420	2,6-DIMETHYLNAPHTHALENE	77, 99, 128, 242
000606202	2,6-DINITROTOLUENE	215, 241
000615225	2-(METHYLTHIO) BENZOTHAZOLE	215
000694804	2-BROMOCHLOROBENZENE	215
CAS000016	2-BUTANOL, 3-METHYL-, ACETATE	43
CAS000017	2-BUTANONE, 3-METHYL-	43
000126998	2-CHLORO-1,3-BUTADIENE	215
000110758	2-CHLOROETHYLVINYL ETHER	215
000091587	2-CHLORONAPHTHALENE	215, 241
000095578	2-CHLOROPHENOL	208, 215, 241
CAS000018	2-CYCLOHEXYL-CYCLOHEXANONE	71
CAS000019	2-CYCLOPROPEN-1-ONE, 2,3-DIPHE	43
000110805	2-ETHOXYETHANOL	190, 243
000939275	2-ETHYLNAPHTHALENE	78, 82, 198
CAS000367	2-FLUOROBIPHENYL	241

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CAS Number	Chemical Name	Reference Number (Ref. No.)
CAS000368	2-FLUOROPHENOL	241
000591786	2-HEXANONE	215
CAS000020	2-HEXANONE, 3,3-DIMETHYL-	43
CAS000021	2-HEXANONE, 6-(ACETYLOXY)-	43
002027170	2-ISOPROPYLNAPHTHALENE	215
000109864	2-METHOXYETHANOL	190, 243
000534521	2-METHYL-4,6-DINITROPHENOL	208, 215, 241
CAS000022	2-METHYLBENZOTHAZOLE	215
000091576	2-METHYLNAPHTHALENE	4, 77, 78, 81, 82, 99, 128, 198, 215, 241, 242
002531842	2-METHYLPHENANTHRENE	99
000088744	2-NITROANILINE	215, 241
000088755	2-NITROPHENOL	190, 208, 215, 241, 243
000079469	2-NITROPROPANE	190
CAS000023	2-PENTANOL, 2,4-DIMETHYL	43
CAS000024	2-PENTENE, 5-(PENTYLOXY)-, (E)	43
000612942	2-PHENYLNAPHTHALENE	4, 78, 79, 80, 81, 82, 215
CAS000025	2-PROPYN-1-01, ACETATE	43
000091941	3,3'-DICHLOROBENZIDINE	215, 241
000119904	3,3'-DIMETHOXYBENZIDINE	215
CAS000026	3,3,7 TRIMETHYL 1,2,3,4 TETRAH	79
CAS000027	3,3,7,12A TETRAMETHYL 1,2,3,4,	79
CAS000028	3,4,7 TRIMETHYL 1,2,3,4 TETRAH	79
001576676	3,6-DIMETHYLPHENANTHRENE	215
000108372	3-BROMOCHLOROBENZENE	215
000108429	3-CHLOROANILINE	241
000121733	3-CHLORONITROBENZENE	215
000107051	3-CHLOROPROPENE	190, 215, 243
CAS000029	3-HEPTANONE, 2,4-DIMETHYL	43
000056495	3-METHYLCHOLANTHRENE	215
CAS000030	3-METHYLPHENANTHRENE	99
000099092	3-NITROANILINE	215, 241
000080057	4,4'-ISOPROPYLIDENEDIPHENOL	190, 243
000101144	4,4'-METHYLENEBIS(2-CHLOROANIL	215
000101779	4,4'-METHYLENEDIANILINE	243
000092671	4-AMINOBIIPHENYL	215
000101553	4-BROMOPHENYL PHENYL ETHER	215, 241
000089634	4-CHLORO-2-NITROANILINE	215
000059507	4-CHLORO-3-METHYLPHENOL	215, 241
000106478	4-CHLOROANILINE	215
007005723	4-CHLOROPHENYL PHENYL ETHER	215, 241
000106445	4-METHYL PHENOL	131, 215, 241
000100016	4-NITROANILINE	215, 241
000092933	4-NITROBIIPHENYL	215
000100027	4-NITROPHENOL	190, 215, 241
CAS000032	4-PENTEN-2-ONE, 3-METHYL	43
000203645	4H-CYCLOPENTA[DEF]PHENANTHRENE	43, 78, 81, 82, 215
000095794	5-CHLORO-O-TOLUIDINE	215

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CAS Number	Chemical Name	Reference Number (Ref. No.)
CAS000034	5-HEXEN-2-ONE, 5-METHYL	43
000099558	5-NITRO-O-TOLUIDINE	215
CAS000035	6-PHENYLDODECANE	95
000057976	7,12-DIMETHYLBENZO [A] ANTHRACEN	215
CAS000036	9,10-DIPHENYLANTHRACENE	99
000883205	9-METHYLPHENANTHRENE	99
CAS000037	9H-FLUOREN-9-ONE	79, 135
000083329	ACENAPHTHENE	4, 18, 43, 54, 59, 60, 70, 77, 78, 81, 82, 99, 128, 187, 215, 241, 242
000208968	ACENAPHTHYLENE	4, 43, 54, 59, 60, 77, 78, 81, 82, 187, 207, 215, 241, 242
030560191	ACEPHATE	42, 192
000075070	ACETALDEHYDE	190, 243
000067641	ACETONE	131, 190, 205, 207, 215, 243
000075058	ACETONITRILE	190, 243
000098862	ACETOPHENONE	215
CAS000038	ACID WASTES	156
050594666	ACIFLUORFEN	35, 42, 180, 192, 206, 214
000107028	ACROLEIN	215
000079061	ACRYLAMIDE	190, 243
000079107	ACRYLIC ACID	190, 243
000107131	ACRYLONITRILE	190, 215, 243
015972608	ALACHLOR	18, 42, 54, 180, 192, 194, 206, 215, 237, 239
000116063	ALDICARB	35, 42, 192
000309002	ALDRIN	12, 13, 33, 42, 54, 59, 77, 90, 100, 102, 128, 129, 153, 187, 196, 199, 211, 212, 215, 225, 238, 241, 242, 244
CAS000039	ALKANES	135, 190, 239, 243
CAS000040	ALKYLATED BENZENES	142
CAS000041	ALKYLATED CARBAZOLES	142
CAS000042	ALKYLNAPHTHALENES	142
CAS000043	ALKYLPHENOLS	142
000107186	ALLYL ALCOHOL	215
000608731	ALPHA-HEXACHLOROCYCLOHEXANE	198, 200
000134327	ALPHA-NAPHTHYLAMINE	215
000109068	ALPHA-PICOLINE	215
000098555	ALPHA-TERPINEOL	215
007429905	ALUMINUM	2, 3, 12, 19, 20, 21, 22, 23, 24, 25, 27, 34, 39, 43, 54, 55, 57, 61, 71, 73, 74, 77, 86, 90, 100, 103, 127, 150, 153, 155, 159, 175, 177, 178, 186, 190, 208, 215, 242, 243
CAS000044	ALUMINUM CHLORIDE	150
001344281	ALUMINUM OXIDE	190

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020859738	ALUMINUM PHOSPHIDE	42
010043013	ALUMINUM SULFATE	191
000834128	AMETRYN	35
000061825	AMITROLE	42
007664417	AMMONIA	4, 5, 19, 29, 31, 73, 86, 131, 135, 190, 191, 205, 213, 225, 243
CAS000350	AMMONIUM ETHYL CARBAMOYL PHOSP	42
006484522	AMMONIUM NITRATE	190, 191, 243
007783202	AMMONIUM SULFATE	190, 243
000062533	ANILINE	190, 215, 241, 243
000120127	ANTHRACENE	4, 6, 8, 18, 20, 21, 22, 23, 24, 25, 30, 39, 43, 54, 56, 59, 60, 70, 77, 78, 81, 82, 99, 128, 178, 187, 190, 215, 241, 242, 243, 244
000613127	ANTHRACENE, 2-METHYL-	43
CAS000045	ANTHRAQUINONE	78, 79, 81
007440360	ANTIMONY	34, 51, 75, 77, 100, 153, 175, 178, 187, 189, 190, 196, 198, 200, 207, 208, 234, 240, 242, 243
000140578	ARAMITE	215
007440382	ARSENIC	1, 4, 10, 11, 12, 19, 20, 21, 22, 23, 24, 25, 27, 32, 34, 36, 39, 43, 44, 46, 50, 51, 54, 55, 56, 59, 60, 61, 70, 74, 75, 76, 77, 90, 92, 94, 100, 103, 115, 122, 123, 130, 131, 139, 145, 148, 159, 161, 162, 163, 175, 177, 178, 185, 186, 187, 189, 190, 196, 198, 199, 200, 201, 203, 205, 207, 209, 211, 212, 213, 215, 217, 224, 234, 240, 241, 242, 243, 244
001332214	ASBESTOS (FRIABLE)	190, 243
001912249	ATRAZINE	4, 7, 18, 35, 37, 38, 39, 42, 54, 60, 97, 114, 120, 121, 136, 179, 180, 192, 194, 206, 214, 215, 237, 239
CAS000344	ATRAZINE, HYDROXY-	7
CAS000342	ATRAZINE, N DEETHYLATED	7
CAS000343	ATRAZINE, N-DEISOPROPYLATED	7
CAS000046	AZAARENES	142
002642719	AZINPHOS ETHYL	70, 215
000086500	AZINPHOS METHYL	42, 70, 192, 215, 237
023526025	BACILLUS THURINGIENSIS	42, 192

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CAS Number	Chemical Name	Reference Number (Ref. No.)
007440393	BARIUM	32, 71, 90, 127, 155, 175, 178, 190, 205, 234, 243
022781233	BENDIOCARB	42
001861401	BENEFIN	42, 192, 237
017804352	BENOMYL	18, 42, 192, 237
000741582	BENSULIDE	35, 42, 180, 192, 206
025057890	BENTAZON	35, 42, 192, 214, 237
000082053	BENZANTHRONE	215
000071432	BENZENE	18, 51, 131, 190, 191, 196, 199, 202, 207, 215, 243, 244
CAS000047	BENZENE, 1, 1' - (1-BUTEN-3-YNE-1,	43
000108985	BENZENETHIOL	215
000092875	BENZIDINE	215, 241
CAS000048	BENZOCARBAZOLES	79, 142
CAS000049	BENZOFLUORANTHENES	4, 74, 78, 82
000065850	BENZOIC ACID	215, 241
CAS000050	BENZONAPHTHOTHIOPHENE	78, 82
CAS000051	BENZOQUINOLINES	142
CAS000052	BENZOTHIOPHENES	78
000094360	BENZOYL PEROXIDE	190, 243
CAS000053	BENZO[A] FLUORANTHENE	81, 82
000238846	BENZO[A] FLUORENE	4, 6, 8, 20, 21, 22, 23, 24, 25, 30, 78, 80, 81, 82
000050328	BENZO[A] PYRENE	3, 4, 6, 8, 18, 20, 21, 22, 23, 24, 25, 27, 30, 43, 54, 59, 60, 70, 74, 77, 78, 80, 81, 82, 95, 99, 128, 178, 184, 187, 198, 199, 207, 215, 239, 241, 242, 244
000205992	BENZO[B] FLUORANTHENE	6, 8, 18, 20, 21, 22, 23, 24, 25, 30, 43, 54, 59, 60, 70, 77, 80, 178, 184, 187, 207, 215, 239, 241
000243846	BENZO[B] FLUORENE	4, 78, 80, 81, 82
CAS000055	BENZO[B] NAPHTHOL [1, 2-D] THIOPHE	43
CAS000056	BENZO[B] NAPHTHOL [2, 3-D] FURAN	43
CAS000057	BENZO[B] NAPHTHOTHIOPHENES	4
CAS000058	BENZO[B] NAPHTHO [2, 1-D] THIOPHEN	4, 78, 81, 82
CAS000059	BENZO[B] NAPHTHO [2, 3-D] THIOPHEN	4
000195197	BENZO[C] PHENANTHRENE	43, 78, 80, 81, 82
000192972	BENZO[E] PYRENE	4, 6, 8, 20, 21, 22, 23, 24, 25, 30, 43, 70, 74, 77, 78, 80, 81, 82, 95, 99, 128, 178, 198, 242
000203123	BENZO[GHI] FLUORANTHENE	18, 78, 82
000191242	BENZO[GHI] PERYLENE	4, 6, 8, 20, 21, 22, 23, 24, 25, 30, 43, 54, 60, 70, 77, 78, 80, 81, 82, 95, 99, 178, 184, 187, 207, 215, 241, 242

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CAS Number	Chemical Name	Reference Number (Ref. No.)
000205823	BENZO [J] FLUORANTHENE	43, 54, 80
000207089	BENZO [K] FLUORANTHENE	6, 8, 18, 20, 21, 22, 23, 24, 25, 30, 54, 59, 60, 70, 77, 80, 178, 187, 207, 215, 239, 241
000100516	BENZYL ALCOHOL	215, 241
000100447	BENZYL CHLORIDE	190, 191, 243
000056553	BENZ [A] ANTHRACENE	4, 6, 18, 20, 21, 22, 23, 24, 25, 30, 39, 43, 54, 56, 60, 70, 74, 77, 78, 80, 81, 82, 95, 99, 128, 178, 187, 198, 207, 215, 239, 241, 242
007440417	BERYLLIUM	19, 51, 90, 100, 135, 175, 178, 187, 196, 198, 199, 200, 207, 208
000091598	BETA-NAPHTHYLAMINE	215
000319846	BHC-ALPHA	4, 33, 36, 43, 44, 46, 50, 52, 53, 54, 59, 60, 100, 161, 178, 187, 209, 211, 212, 215, 239, 241
000319857	BHC-BETA	54, 59, 215, 241
000319868	BHC-DELTA	215, 241
000058899	BHC-GAMMA (LINDANE)	4, 12, 13, 17, 33, 36, 42, 43, 44, 46, 50, 52, 54, 59, 77, 90, 100, 102, 128, 130, 153, 178, 187, 196, 199, 200, 201, 209, 211, 212, 215, 237, 238, 239, 240, 241, 242
000092524	BIPHENYL	4, 6, 8, 20, 21, 22, 23, 24, 25, 30, 70, 74, 77, 78, 81, 82, 99, 142, 190, 198, 215, 242, 243
039638329	BIS (2-CHLOROISOPROPYL) ETHER	215, 241
000111911	BIS (2-CHLOROETHOXY) METHANE	215, 241
000111444	BIS (2-CHLOROETHYL) ETHER	215, 241
000103231	BIS (2-ETHYLHEXYL) ADIPATE	190, 243
000688733	BIS (TRI-N-BUTYLTIN) OXIDE	9, 14, 16, 39, 62, 65, 66, 67, 68, 69, 101, 126, 133, 143, 159, 167, 168, 169, 188, 215
007440699	BISMUTH	153
CAS000060	BLADEX	4
010043353	BORIC ACID	42
007440428	BORON	127, 153, 175, 178, 208
CAS000061	BRAVO 500	18
056073100	BRODIFACOUM	42
CAS000062	BROMACIL	42, 142
028772567	BROMADIOLONE	42
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006088513	DDD (ANALYTICAL)	209, 211, 212, 215, 228, 232, 233
000053190	DDD (O,P)	4, 33, 77, 102, 128, 238, 242
000072559	DDE (4,4')	1, 4, 12, 13, 17, 33, 39, 43, 44, 46, 50, 52, 53, 56, 59, 60, 71, 77, 82, 98, 102, 103, 104, 128, 142, 147, 153, 162, 163, 187, 203, 209, 211, 212, 215, 228, 232, 233, 238, 241, 242
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000050293	DDT (4,4')	1, 4, 12, 13, 17, 33, 39, 44, 48, 52, 53, 59, 64, 77, 82, 95, 98, 102, 104, 105, 106, 128, 142, 153, 187, 189, 209, 211, 212, 213, 215, 228, 238, 240, 241, 242

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000075694	TRICHLOROFLUOROMETHANE	215
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000638675	TRICOSANE	215
000078308	TRICRESYLPHOSPHATE	237
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001582098	TRIFLURALIN	192, 237
026644462	TRIFORINE	168
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020324338	TRIPROPYLENEGLYCOL METHYL ETHE	70
CAS000334	TRITRIACONTANE	

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007440622	VANADIUM	2, 3, 4, 20, 21, 22, 23, 24, 25, 39, 57, 71, 74, 86, 127, 153, 155, 175, 178, 190, 234, 243
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000075014	VINYL CHLORIDE	51, 215, 244
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007440666	ZINC	1, 2, 3, 4, 10, 11, 12, 13, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 34, 36, 39, 40, 41, 43, 44, 46, 50, 51, 54, 55, 57, 59, 60, 61, 64, 70, 71, 73, 74, 75, 76, 77, 82, 83, 86, 87, 89, 90, 92, 94, 100, 102, 103, 107, 110, 111, 112, 116, 122, 123, 125, 127, 129, 130, 131, 132, 135, 137, 139, 140, 141, 145, 148, 150, 151, 153, 155, 158, 159, 161, 162, 163, 164, 166, 172, 173, 175, 176, 177, 178, 183, 184, 185, 186, 187, 189, 190, 196, 197, 198, 199, 200, 201, 202, 203, 205, 207, 208, 209, 210, 211, 212, 213, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 229, 230, 231, 232, 233, 234, 235, 238, 239, 240, 241, 242, 243, 244
001314847	ZINC PHOSPHIDE	42
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000137304	ZIRAM	192
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