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2005 CERCLA Priority List of Hazardous Substances

What is the CERCLA List

The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) section 104 (i), as amended by the Superfund Amendments and Reauthorization Act (SARA), requires ATSDR and the EPA to prepare a list, in order of priority, of substances that are most commonly found at facilities on the National Priorities List (NPL) and which are determined to pose the most significant potential threat to human health due to their known or suspected toxicity and potential for human exposure at these NPL sites. CERCLA also requires this list to be revised periodically to reflect additional information on hazardous substances.

This CERCLA priority list is revised and published on a 2-year basis, with a yearly informal review and revision. Each substance on the CERCLA Priority List of Hazardous Substances is a candidate to become the subject of a toxicological profile prepared by ATSDR and subsequently a candidate for the identification of priority data needs. This priority list is based on an algorithm that utilizes the following three components: frequency of occurrence at NPL sites, toxicity, and potential for human exposure to the substances found at NPL sites. This algorithm utilizes data from ATSDR's HazDat database, which contains information from ATSDR's public health assessments and health consultations.

It should be noted that this priority list is not a list of "most toxic" substances, but rather a prioritization of substances based on a combination of their frequency, toxicity, and potential for human exposure at NPL sites.

Thus, it is possible for substances with low toxicity but high NPL frequency of occurrence and exposure to be on this priority list. The objective of this priority list is to rank substances across all NPL hazardous waste sites to provide guidance in selecting which substances will be the subject of toxicological profiles prepared by ATSDR.

There is a [Support Document](#) to the CERCLA Priority List of Hazardous Substances that describes in detail how the list is developed. This support document also contains an appendix showing the breakdown of the total scores for each substance on the priority list. To view this support document,

NMOC CASE NO. 13598
FEBRUARY 9, 2006
SMITH, SNYDER & A.C.
EXHIBIT NO. 9

Related information

The ATSDR Division of Toxicology has prepared several sets of publications that provide answers to many health concerns that are voiced by community groups and give general information on various properties of each of these substances. Those publications are listed and may be accessed online at the following links:

- [ATSDR ToxFAQs™ Sheets](#)
- [ATSDR Public Health Statements](#)
- [ATSDR Toxicological Profiles](#)

You may also access the previous lists online:

- **CERCLA Priority List of Hazardous Substances for 2005**
- [CERCLA Priority List of Hazardous Substances for 2003](#)
- [CERCLA Priority List of Hazardous Substances for 2001](#)
- [CERCLA Priority List of Hazardous Substances for 1999](#)
- [CERCLA Priority List of Hazardous Substances for 1997](#)

Contact information

Further information can be obtained by contacting the ATSDR Information Center at:

2005 CERCLA Priority List Hazardous Substances

2005 RANK	SUBSTANCE NAME	TOTAL POINTS	2003 RANK	CAS #
1	ARSENIC	1668.56	1	007440-38-2
2	LEAD	1534.54	2	007439-92-1
3	MERCURY	1507.31	3	007439-97-6
4	VINYL CHLORIDE	1389.02	4	000075-01-4
5	POLYCHLORINATED BIPHENYLS	1371.60	5	001336-36-3
6	BENZENE	1353.53	6	000071-43-2
7	POLYCYCLIC AROMATIC HYDROCARBONS	1321.72	8	130498-29-2
8	CADMIUM	1321.47	7	007440-43-9
9	BENZO(A)PYRENE	1307.76	9	000050-32-8
10	BENZO(B)FLUORANTHENE	1263.06	10	000205-99-2
11	CHLOROFORM	1224.22	11	000067-66-3
12	DDT, P,P'-	1194.95	12	000050-29-3
13	AROCLOR 1254	1182.53	13	011097-69-1
14	AROCLOR 1260	1179.51	14	011096-82-5
15	DIBENZO(A,H)ANTHRACENE	1165.46	15	000053-70-3
16	TRICHLOROETHYLENE	1158.15	16	000079-01-6
17	DIELDRIN	1153.23	18	000060-57-1
18	CHROMIUM, HEXAVALENT	1149.71	17	018540-29-9
19	PHOSPHORUS, WHITE	1144.69	19	007723-14-0

20	DDE, P,P'-	1135.78	21	000072-55-9
21	CHLORDANE	1133.31	20	000057-74-9
22	HEXACHLOROBUTADIENE	1130.66	22	000087-68-3
23	COAL TAR CREOSOTE	1124.08	23	008001-58-9
24	DDD, P,P'-	1121.42	24	000072-54-8
25	ALDRIN	1116.94	26	000309-00-2
26	BENZIDINE	1114.05	25	000092-87-5
27	AROCLOR 1248	1112.19	27	012672-29-6
28	CYANIDE	1098.75	28	000057-12-5
29	AROCLOR 1242	1092.87	29	053469-21-9
30	TOXAPHENE	1086.23	31	008001-35-2
31	TETRACHLOROETHYLENE	1084.88	30	000127-18-4
32	HEXACHLOROCYCLOHEXANE, GAMMA-	1080.42	32	000058-89-9
33	HEPTACHLOR	1070.76	33	000076-44-8
34	1,2-DIBROMOETHANE	1064.58	34	000106-93-4
35	DISULFOTON	1058.74	36	000298-04-4
36	ACROLEIN	1057.72	71	000107-02-8
37	HEXACHLOROCYCLOHEXANE, BETA-	1056.45	37	000319-85-7
38	BENZO(A)ANTHRACENE	1055.63	35	000056-55-3
39	3,3'-DICHLOBENZIDINE	1051.33	53	000091-94-1
40	BERYLLIUM	1046.48	38	007440-41-7
41	ENDRIN	1040.88	39	000072-20-8
42	HEXACHLOROCYCLOHEXANE, DELTA-	1038.14	40	000319-86-8
43	1,2-DIBROMO-3-CHLOROPROPANE	1035.87	41	000096-12-8
44	HEPTACHLOR EPOXIDE	1028.26	44	001024-57-3
45	PENTACHLOROPHENOL	1024.41	42	000087-86-5
46	CARBON TETRACHLORIDE	1022.74	43	000056-23-5
47	AROCLOR 1221	1018.20	45	011104-28-2
48	AROCLOR 1016	1014.83	46	012674-11-2
49	DDT, O,P'-	1014.65	47	000789-02-6
50	COBALT	1013.95	49	007440-48-4
51	CIS-CHLORDANE	1010.94	50	005103-71-9
52	DI-N-BUTYL PHTHALATE	1005.41	48	000084-74-2
53	ENDOSULFAN SULFATE	1004.89	52	001031-07-8
54	ENDOSULFAN	1004.26	54	000115-29-7
55	NICKEL	1003.95	51	007440-02-0
56	TRANS-CHLORDANE	1002.36	55	005103-74-2
57	DIAZINON	1001.89	114	000333-41-5
58	ENDOSULFAN, ALPHA	1000.76	57	000959-98-8
59	XYLENES, TOTAL	995.32	56	001330-20-7
60	DIBROMOCHLOROPROPANE	994.75	58	067708-83-2
61	METHOXYCHLOR	993.32	59	000072-43-5
62	AROCLOR	991.52	60	012767-79-2

63	BENZO(K)FLUORANTHENE	980.61	61	000207-08-9
64	ENDRIN KETONE	978.86	62	053494-70-5
65	ENDOSULFAN, BETA	976.59	63	033213-65-9
66	CHROMIUM(VI) OXIDE	969.43	64	001333-82-0
67	METHANE	959.56	65	000074-82-8
68	AROCLOR 1232	955.38	67	011141-16-5
69	ENDRIN ALDEHYDE	954.50	66	007421-93-4
70	BENZOFLUORANTHENE	951.23	69	056832-73-6
71	TOLUENE	946.04	68	000108-88-3
72	2-HEXANONE	940.85	70	000591-78-6
73	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	937.04	72	001746-01-6
74	ZINC	930.42	73	007440-66-6
75	DIMETHYLARSINIC ACID	921.93	74	000075-60-5
76	DI(2-ETHYLHEXYL)PHTHALATE	918.60	75	000117-81-7
77	CHROMIUM	905.03	76	007440-47-3
78	NAPHTHALENE	895.49	78	000091-20-3
79	1,1-DICHLOROETHENE	894.91	77	000075-35-4
80	AROCLOR 1240	888.03	81	071328-89-7
81	METHYLENE CHLORIDE	886.69	80	000075-09-2
82	2,4,6-TRINITROTOLUENE	879.06	82	000118-96-7
83	BROMODICHLOROETHANE	869.91	86	000683-53-4
84	1,2-DICHLOROETHANE	865.60	87	000107-06-2
85	HYDRAZINE	864.30	88	000302-01-2
86	2,4,6-TRICHLOROPHENOL	863.10	83	000088-06-2
87	2,4-DINITROPHENOL	860.43	85	000051-28-5
88	BIS(2-CHLOROETHYL) ETHER	858.19	89	000111-44-4
89	THIOCYANATE	849.12	90	000302-04-5
90	ASBESTOS	842.16	92	001332-21-4
91	CYCLOTRIMETHYLENETRINITRAMINE (RDX)	840.72	93	000121-82-4
92	CHLORINE	840.04	94	007782-50-5
93	HEXACHLOROBENZENE	838.26	91	000118-74-1
94	RADIUM-226	835.89	98	013982-63-3
95	1,1,1-TRICHLOROETHANE	835.27	95	000071-55-6
96	2,4-DINITROTOLUENE	834.71	96	000121-14-2
97	ETHION	833.95	100	000563-12-2
98	URANIUM	833.16	97	007440-61-1
99	ETHYLBENZENE	830.62	99	000100-41-4
100	RADIUM	827.97	101	007440-14-4
101	THORIUM	825.03	102	007440-29-1
102	4,6-DINITRO-O-CRESOL	822.35	103	000534-52-1
103	1,3,5-TRINITROBENZENE	819.11	106	000099-35-4
104	RADON	818.41	104	010043-92-2
105	CHLOROBENZENE	817.28	108	000108-90-7

106	RADIUM-228	816.58	107	015262-20-1
107	URANIUM-235	814.60	112	015117-96-1
107	THORIUM-230	814.60	109	014269-63-7
109	BARIUM	812.12	110	007440-39-3
110	URANIUM-234	812.01	113	013966-29-5
111	N-NITROSODI-N-PROPYLAMINE	811.01	111	000621-64-7
112	THORIUM-228	810.30	116	014274-82-9
113	FLUORANTHENE	810.29	115	000206-44-0
114	RADON-222	810.23	117	014859-67-7
115	MANGANESE	808.16	131	007439-96-5
116	HEXACHLOROCYCLOHEXANE, ALPHA-	807.72	118	000319-84-6
117	COAL TARS	807.03	124	008007-45-2
118	PLUTONIUM-239	806.68	122	015117-48-3
119	STRONTIUM-90	806.62	120	010098-97-2
119	CHRYSTILE ASBESTOS	806.62	125	012001-29-5
121	METHYLMERCURY	806.47	119	022967-92-6
122	POLONIUM-210	806.34	120	013981-52-7
123	PLUTONIUM-238	805.93	123	013981-16-3
124	LEAD-210	805.86	126	014255-04-0
125	PLUTONIUM	805.19	128	007440-07-5
125	CHLORPYRIFOS	805.19	127	002921-88-2
127	RADON-220	804.56	129	022481-48-7
128	AMERICIUM-241	804.50	130	086954-36-1
129	AMOSITE ASBESTOS	804.02	176	012172-73-5
130	IODINE-131	803.48	132	010043-66-0
131	TRIBUTYL TIN	803.07	132	000688-73-3
132	HYDROGEN CYANIDE	803.03	134	000074-90-8
133	COPPER	802.60	141	007440-50-8
134	GUTHION	802.32	135	000086-50-0
135	NEPTUNIUM-237	802.11	136	013994-20-2
136	CHLORDECONE	801.63	137	000143-50-0
136	IODINE-129	801.63	137	015046-84-1
136	PLUTONIUM-240	801.63	137	014119-33-6
139	CHRYSENE	799.59	140	000218-01-9
140	S,S,S-TRIBUTYL PHOSPHOTRITHIOATE	797.81	142	000078-48-8
141	POLYBROMINATED BIPHENYLS	789.01	144	067774-32-7
142	BROMINE	789.01	143	007726-95-6
143	1,2,3-TRICHLOROBENZENE	787.73	151	000087-61-6
144	DICOFOL	787.52	145	000115-32-2
145	PARATHION	784.02	146	000056-38-2
146	1,1,2,2-TETRACHLOROETHANE	778.29	148	000079-34-5
147	SELENIUM	777.65	147	007782-49-2
148	HEXACHLOROCYCLOHEXANE, TECHNICAL	774.60	149	000608-73-1

	GRADE			
149	TRICHLOROFLUOROETHANE	770.66	152	027154-33-2
150	TRIFLURALIN	770.06	153	001582-09-8
151	DDD, O,P'-	768.62	154	000053-19-0
152	4,4'-METHYLENEBIS(2-CHLOROANILINE)	766.59	155	000101-14-4
153	HEXACHLORODIBENZO-P-DIOXIN	760.07	156	034465-46-8
154	HEPTACHLORODIBENZO-P-DIOXIN	754.08	157	037871-00-4
155	PENTACHLOROBENZENE	753.47	158	000608-93-5
156	AMMONIA	744.67	161	007664-41-7
157	2-METHYLNAPHTHALENE	743.90	159	000091-57-6
158	1,1-DICHLOROETHANE	737.82	162	000075-34-3
159	1,4-DICHLOROBENZENE	735.51	164	000106-46-7
160	ACENAPHTHENE	729.63	165	000083-32-9
161	1,2,3,4,6,7,8,9-OCTACHLORODIBENZOFURAN	725.79	167	039001-02-0
162	1,1,2-TRICHLOROETHANE	722.98	163	000079-00-5
163	TRICHLOROETHANE	722.85	166	025323-89-1
164	HEXACHLOROCYCLOPENTADIENE	718.71	168	000077-47-4
165	HEPTACHLORODIBENZOFURAN	718.25	169	038998-75-3
166	1,2-DIPHENYLHYDRAZINE	713.70	170	000122-66-7
167	2,3,4,7,8-PENTACHLORODIBENZOFURAN	710.58	171	057117-31-4
168	TETRACHLOROBIPHENYL	709.14	172	026914-33-0
169	CRESOL, PARA-	706.23	173	000106-44-5
170	OXYCHLORDANE	706.21	174	027304-13-8
171	1,2-DICHLOROBENZENE	703.53	182	000095-50-1
172	GAMMA-CHLORDENE	702.55	84	056641-38-4
173	TETRACHLOROPHENOL	702.38	181	025167-83-3
174	CARBON DISULFIDE	702.31	177	000075-15-0
175	URANIUM-233	701.59	246	013968-55-3
175	AMERICIUM	701.59	178	007440-35-9
177	PALLADIUM	700.60	185	007440-05-3
178	1,2-DICHLOROETHENE, TRANS-	700.56	175	000156-60-5
179	HEXACHLORODIBENZOFURAN	700.27	184	055684-94-1
180	INDENO(1,2,3-CD)PYRENE	698.45	183	000193-39-5
181	ACETONE	693.31	187	000067-64-1
182	CHLOROETHANE	692.77	188	000075-00-3
183	PHENOL	692.66	186	000108-95-2
184	1,3-DICHLOROPROPENE, CIS-	691.06	264	010061-01-5
185	P-XYLENE	689.26	190	000106-42-3
186	ALUMINUM	688.21	194	007429-90-5
187	DIBENZOFURAN	687.80	189	000132-64-9
188	CARBON MONOXIDE	684.41	193	000630-08-0
189	2,4-DIMETHYLPHENOL	684.10	191	000105-67-9
190	TETRACHLOROETHANE	678.08	205	025322-20-7

191	CHLOROMETHANE	674.44	196	000074-87-3
192	PENTACHLORODIBENZOFURAN	672.91	195	030402-15-4
193	HYDROGEN SULFIDE	672.87	197	007783-06-4
194	BIS(2-METHOXYETHYL) PHTHALATE	665.99	198	034006-76-3
195	BUTYL BENZYL PHTHALATE	657.37	200	000085-68-7
196	CRESOL, ORTHO-	657.19	199	000095-48-7
197	2,3,5,6-TETRACHLOROPHENOL	654.88	201	000935-95-5
198	VANADIUM	653.47	203	007440-62-2
199	HEXACHLOROETHANE	652.73	202	000067-72-1
200	N-NITROSODIMETHYLAMINE	650.41	150	000062-75-9
201	1,3-BUTADIENE	647.46	204	000106-99-0
202	BROMOFORM	644.75	207	000075-25-2
203	1,2,4-TRICHLOROBENZENE	644.17	206	000120-82-1
204	TETRACHLORODIBENZO-P-DIOXIN	635.43	208	041903-57-5
205	1,3-DICHLOROBENZENE	630.23	209	000541-73-1
206	1,2-DICHLOROETHYLENE	625.60	213	000540-59-0
207	PENTACHLORODIBENZO-P-DIOXIN	624.88	212	036088-22-9
208	N-NITROSODIPHENYLAMINE	623.80	211	000086-30-6
209	2-BUTANONE	622.18	214	000078-93-3
210	2,3,7,8-TETRACHLORODIBENZOFURAN	621.90	216	051207-31-9
211	DICHLOROBENZENE	620.70	260	025321-22-6
212	2,4-DICHLOROPHENOL	615.86	210	000120-83-2
213	SILVER	613.48	218	007440-22-4
214	FLUORINE	613.10	NEW	007782-41-4
215	1,4-DIOXANE	612.78	NEW	000123-91-1
216	NITRITE	612.49	220	014797-65-0
217	CESIUM-137	612.35	217	010045-97-3
218	CHROMIUM TRIOXIDE	610.71	221	007738-94-5
219	NITRATE	609.85	222	014797-55-8
220	POTASSIUM-40	608.80	224	013966-00-2
221	DINITROTOLUENE	607.58	223	025321-14-6
222	ANTIMONY	606.30	230	007440-36-0
223	THORIUM-227	605.32	225	015623-47-9
224	COAL TAR PITCH	605.25	226	065996-93-2
225	2,4,5-TRICHLOROPHENOL	604.44	228	000095-95-4
226	ARSENIC ACID	604.40	227	007778-39-4
227	ARSENIC TRIOXIDE	604.30	229	001327-53-3
228	PHORATE	603.07	231	000298-02-2
229	CRESOLS	603.02	250	001319-77-3
230	BENZOPYRENE	602.97	236	073467-76-2
231	CHLORDANE, TECHNICAL	602.60	NEW	012789-03-6
232	DIMETHOATE	602.59	233	000060-51-5
233	STROBANE	602.54	234	008001-50-1

233	ACTINIUM-227	602.54	234	014952-40-0
235	PYRETHRUM	602.49	236	008003-34-7
235	4-AMINOBIIPHENYL	602.49	236	000092-67-1
237	ARSINE	602.39	239	007784-42-1
238	NALED	602.32	240	000300-76-5
239	ETHOPROP	602.11	241	013194-48-4
239	DIBENZOFURANS, CHLORINATED	602.11	241	042934-53-2
241	ALPHA-CHLORDENE	601.91	243	056534-02-2
241	CARBOPHENOTHION	601.91	243	000786-19-6
243	DICHLORVOS	601.63	245	000062-73-7
244	SODIUM ARSENITE	601.43	NEW	007784-46-5
244	CALCIUM ARSENATE	601.43	246	007778-44-1
244	MERCURIC CHLORIDE	601.43	246	007487-94-7
247	FORMALDEHYDE	599.22	251	000050-00-0
248	2-CHLOROPHENOL	598.90	219	000095-57-8
249	PHENANTHRENE	595.25	249	000085-01-8
250	HYDROGEN FLUORIDE	587.88	253	007664-39-3
251	2,4-D ACID	584.13	252	000094-75-7
252	DIBROMOCHLOROMETHANE	580.41	255	000124-48-1
253	DIURON	579.09	NEW	000330-54-1
254	BUTYLATE	578.36	257	002008-41-5
255	DIMETHYL FORMAMIDE	578.04	258	000068-12-2
256	PYRENE	575.34	259	000129-00-0
257	ETHYL ETHER	572.10	261	000060-29-7
258	DICHLOROETHANE	570.47	262	001300-21-6
259	4-NITROPHENOL	566.05	263	000100-02-7
260	PHOSPHINE	559.64	265	007803-51-2
261	TRICHLOROBENZENE	558.13	266	012002-48-1
262	2,6-DINITROTOLUENE	554.50	267	000606-20-2
263	FLUORIDE ION	549.16	269	016984-48-8
264	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	547.70	270	035822-46-9
265	METHYL PARATHION	545.71	271	000298-00-0
266	PENTAERYTHRITOL TETRANITRATE	545.49	NEW	000078-11-5
267	1,3-DICHLOROPROPENE, TRANS-	545.07	268	010061-02-6
268	BIS(2-ETHYLHEXYL)ADIPATE	540.08	273	000103-23-1
269	CARBAZOLE	535.41	272	000086-74-8
270	1,2-DICHLOROETHENE, CIS-	532.34	NEW	000156-59-2
271	METHYL ISOBUTYL KETONE	531.89	274	000108-10-1
272	STYRENE	531.08	275	000100-42-5
273	CARBARYL	530.91	NEW	000063-25-2
274	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	529.28	NEW	067562-39-4
275	ACRYLONITRILE	528.09	NEW	000107-13-1

Substances were assigned the same rank when two (or more) substances received equivalent

total point scores.

CAS # = Chemical Abstracts Service Registry Number

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