

Table 1 - Priority Chemical Candidate List

Name(s)	CAS RN	Chemical Class	Hazard Information	Notes and References
<b>Artificial Musk</b>				
Artificial musk compounds		Artificial Musk	PBT, vPvB	This class of chemicals includes 2 substances found on the ME CHC list, musk ambrette (CAS RN 83-66-9) and musk xylene (CAS RN 81-15-2). References: 9, 12, 21
<b>Metals</b>				
Antimony oxide [Antimony trioxide]	1309-64-4	Metals	Carcinogen	Antimony is detected directly. References: 4, 23, 25
Arsenic and arsenic compounds	7440-38-2	Metals	Carcinogen	Arsenic and its compounds, detected directly and in multiple forms, are combined. References: 4, 5, 21, 22, 23, 25
Cadmium and cadmium compounds	7440-43-9	Metals	PBT, Carcinogen, Developmental and Reproductive Toxicant	Cadmium is detected directly and may cover multiple sources. References: 4, 21, 22, 23
Lead	7439-92-1	Metals	PBT, Carcinogen, Developmental, and Reproductive Toxicant	Lead is detected directly and may cover multiple sources. References: 4, 5, 7, 21, 22, 23
Mercury and mercury compounds	7439-97-6	Metals	PBT, Carcinogen, Developmental Toxicant	Mercury is detected directly and may cover multiple organic and inorganic sources. References: 4, 5, 6, 7, 13, 21, 22, 23, 25
<b>Parabens</b>				
Paraben compounds		Parabens	Endocrine Disruptor	This class of chemicals include 4 parabens found on the ME CHC list, methylparaben (CAS RN 99-76-3), ethylparaben (CAS RN 120-47-8), propylparaben (CAS RN 94-13-3), and butylparaben (CAS RN 94-26-8). References: 9, 25
<b>Perfluorochemicals</b>				
Perfluorohexane sulfonic acid [PFHxS; CAS RN 355-67-1] precursors.		Perfluorochemicals	PBiT	This include several individual chemicals that are likely to breakdown to PFHxS in the environment, including CAS RN 424-50-7, CAS RN 68555-75-9, CAS RN 68259-15-4, and CAS RN 34455-03-3. All four of these compounds are on the ME CHC list. References: 4, 5, 7, 13, 16, 24
Heptanoic acid, tridecafluoro-, ammonium salt	6130-43-4	Perfluorochemicals	PBiT	Detected as perfluoroheptanoic acid [PFHpA; CAS RN 375-85-9]. References: 4, 5, 22, 24
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9, 9,10,10,10-hentadecafluoro-	678-39-7	Perfluorochemicals	PBiT	The likely breakdown product perfluorooctanoic acid [PFOA; CAS RN 335-67-1] was used for biomonitoring criteria purposes. References: 4, 5, 7, 13, 15, 21, 22, 24
Acid [Perfluorooctane sulfonates (PFOS)] and salts; PFOS precursors (see note)	1763-23-1	Perfluorochemicals	PBT, PBiT	This includes several salts of PFOS from the ME CHC list, including the ammonium salt (CAS RN 29081-56-9), the diethanol amine salt (CAS RN 70225-14-8), the lithium salt (CAS RN 29457-72-5), and potassium salts (CAS RN 2795-39-3). In addition, several substances that may breakdown to PFOS are included on the ME CHC list, these are CAS RN 67969-69-1, CAS RN 38006-74-5, and 1652-63-7. References: 4, 5, 7, 13, 16, 21, 22, 24, 25
1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-	1691-99-2	Perfluorochemicals	PBT, PBiT	Detected as the metabolite 2-(N-Ethyl-Perfluorooctane sulfonamido) Acetic Acid [Me-PFOSA-AcOH]. References: 4, 24
1-Nonanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7, 7,8,8,9,9,9-nonadecafluoro-, ammonium salt	17202-41-4	Perfluorochemicals	PBiT	Detected as perfluorononanoic acid [PFNA; CAS RN 375-95-1]. References: 4, 13, 21, 24
<b>Phenols</b>				
4,4'-Methylethylidenebisphenol [Bisphenol A; BPA]	80-05-7	Phenols	Endocrine Disruptor, Developmental Toxicant	Detected directly and as the metabolite BADGE-4OH. References: 4, 5, 6, 7, 13, 21, 24, 25
Nonylphenoethoxylate	9016-45-9	Phenols	Endocrine Disruptor	Detected as Nonylphenols (NPs). References: 12, 25
4-tert -Octylphenol; 4-[1,1,3,3-Tetramethylbutyl phenol [Octylphenol]	140-66-9	Phenols	PBT, Endocrine Disruptor	This may be a metabolite or degradation product of octylphenoethoxylate. References: 4, 25
ortho -Phenylphenol [OPP, 2-Phenylphenol]	90-43-7	Phenols	Carcinogen	References: 4, 23
2,4,4'-Trichloro-2'-hydroxydiphenyl ether [Triclosan]	3380-34-5; 64111-81-5	Phenols	PBiT	References: 4, 7, 22

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<b>Phthalates</b>				
1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester [DEHP, DOP]	117-81-7	Phthalates	PBT, CMR, Carcinogen, Endocrine Disruptor, Developmental and Reproductive Toxicant	Detected as the metabolites mono-(2-ethyl-5-hexyl) phthalate [MEHP], mono-(2-ethyl-5-oxohexyl) phthalate [MEOHP], mono-(2-ethyl-5-hydroxyhexyl) phthalate [MEHHP] and mono-(2-ethyl-5-carboxypentyl) phthalate [MECPP]. References: 4, 5, 13, 21, 24, 25
1,2-Benzenedicarboxylic acid, dioctyl ester [DnOP]	117-84-0	Phthalates	Equivalent Level of Concern	Detected primarily as the metabolite mono-3-carboxypropyl phthalate [MCPP]. References: 4, 24
Benzylbutyl Phthalate; 1,2-benzenedicarboxylic acid, butyl phenylmethyl ester [BBP]	85-68-7	Phthalates	CMR, Endocrine Disruptor, Developmental Toxicant	Detected as the metabolite mono-benzyl phthalate [MBzP]. References: 4, 5, 13, 23, 24
Dicyclohexyl phthalate [DCHP]	84-61-7	Phthalates	Endocrine Disruptor	Detected as the metabolite mono-cyclohexyl phthalate [MCHP]. References: 4, 24
Diethyl phthalate [DEP]	84-66-2	Phthalates	Endocrine Disruptor	Detected as the metabolite mono-ethyl phthalate [MEP]. References: 4, 5, 13, 24, 25
Di-isobutyl phthalate [DiBP]	84-69-5	Phthalates	Equivalent Level of Concern	Detected as the metabolite mono-isobutyl phthalate [MiBP]. References: 4, 5, 13, 23, 24
Di-n-butyl phthalate [DnBP]	84-74-2	Phthalates	CMR, Endocrine Disruptor, Developmental and Reproductive Toxicant	Detected as the metabolite mono-n-butyl phthalate [MnBP]. References: 4, 5, 13, 23, 24
<b>Polybrominated diphenyl ethers</b>				
Polybrominated diphenyl ethers [PBDEs]		Polybrominated diphenyl ethers	PBiT	The PBDE class covers multiple individual compounds, including CAS RN 36483-60-0, CAS RN 40088-47-9, CAS RN 1163-19-5, CAS RN 32536-52-0, and CAS RN 32534-81-9. The PBDEs are complex mixtures of BDE congeners. Multiple individual BDE structures were used as surrogates for this class. References: 4, 5, 6, 8, 21, 24, 25, 32
<b>Polycyclic Aromatic Hydrocarbons</b>				
Naphthalene	91-20-3	Polycyclic Aromatic Hydrocarbons	PBT, Carcinogen	Detected as the metabolites 1-hydroxynaphthalene (CAS RN 90-15-3) and 2-hydroxynaphthalene (CAS RN 135-19-3). References: 4, 21, 23
<b>Volatile Organic Compounds (VOCs)</b>				
1,4-Dichlorobenzene [p-Dichlorobenzene; Paradichlorobenzene]	106-46-7	Volatile Organic Compounds (VOCs)	Carcinogen	References: 4, 21, 23
Ethylbenzene	100-41-4	Volatile Organic Compounds (VOCs)	Carcinogen	References: 4, 23, 25
Styrene	100-42-5	Volatile Organic Compounds (VOCs)	Endocrine Disruptor	References: 4, 25
Tetrachloroethylene [Perchloroethylene; PERC]	127-18-4	Volatile Organic Compounds (VOCs)	Carcinogen	Reference: 4, 21, 23, 25
Toluene	108-88-3	Volatile Organic Compounds (VOCs)	Developmental Toxicant	References: 4, 23, 25