

# **APPENDIX A**

## **LIST OF SUBSTANCES**

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# **APPENDIX A-I**

**SUBSTANCES FOR WHICH  
EMISSIONS MUST BE QUANTIFIED**

**Appendix A-I  
Substances for Which Emissions Must Be Quantified**

Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Effective Phase [Note 23]	Carcinogen [Note 4]	Applicable Degree of Accuracy (lb/yr) [Note 5]	Source List(s) [Note 6]	Other Note(s)
30560191	Acephate	11/20	ChemSet-2		0.5	7	[19]
105577	Acetal	11/20	ChemSet-2		100	7	
75070	Acetaldehyde		e	c	20	1 2 3 4	
60355	Acetamide		e	c	2	1 2 3 4	
64197	Acetic acid	11/20	ChemSet-2		100	7	
108247	Acetic anhydride	11/20	ChemSet-2		100	7	
102012	Acetoacetanilide	11/20	ChemSet-2		100	7	
75058	Acetonitrile	06/91	e		200	1 2	
98862	Acetophenone	06/91	e		100	1 2	
53963	2-Acetylaminofluorene [PAH-Derivative/Related, POM]		e	c	100	1 2 4 5	
107028	Acrolein		e		0.05	1 2	
79061	Acrylamide		e	c	0.01	1 2 3 4	
79107	Acrylic acid	06/91	e		5	1 2	
107131	Acrylonitrile		e	c	0.1	1 2 3 4 5	
--	Acrylonitrile-butadiene-styrene copolymers (must report the individual monomer components)	11/20	-		10	7	
124049	Adipic acid	11/20	ChemSet-2		100	7	
111693	Adiponitrile	11/20	ChemSet-2		100	7	
116063	Aldicarb	11/20	ChemSet-2		1	7	[19]
106956	Allyl bromide	11/20	ChemSet-2		100	7	
107051	Allyl chloride		e	c	5	1 2 4	
109751	Allyl cyanide	11/20	ChemSet-2		0.05	7	
57067	Allyl isothiocyanate	11/20	ChemSet-2		5	7	
2835394	Allyl isovalerate	11/20	ChemSet-2		100	7	
96059	Allyl methacrylate	11/20	ChemSet-2		100	7	
2179591	Allyl propyl disulfide	11/20	ChemSet-2		100	7	
7429905	Aluminum	06/91	e		100	1	
1344281	Aluminum oxide (fibrous forms)	06/91	e		100	7	
117793	2-Aminoanthraquinone [PAH-Derivative/Related, POM]		e	c	5	1 2 4 5	
92671	4-Aminobiphenyl [POM]		e	c	100	1 2 3 4 5	
95852	2-Amino-4-chlorophenol	11/20	ChemSet-2	c	50	3 4	
81492	1-Amino-2,4-dibromoanthraquinone [PAH-Derivative/Related, POM]	11/20	ChemSet-1	c	0.5	3 4 5	
77094112	2-Amino-3,4-dimethylimidazo[4,5-f]quinoline	11/20	ChemSet-2	c	50	3 4	
77500040	2-Amino-3,8-dimethylimidazo[4,5-f]quinoxaline	11/20	ChemSet-2	c	50	3 4	
153786	2-Aminofluorene [PAH-Derivative/Related, POM]	11/20	ChemSet-1	c	0.5	4	
99570	2-Amino-4-nitrophenol	11/20	ChemSet-2		100	7	
121880	2-Amino-5-nitrophenol	11/20	ChemSet-2		100	7	
119346	4-Amino-2-nitrophenol	11/20	ChemSet-2	c	50	4	
33089611	Amitraz	11/20	ChemSet-2		0.1	4	[19]
61825	Amitrole		e	c	0.1	4 5	
7664417	Ammonia		e		200	1 2	
12125029	Ammonium chloride	11/20	ChemSet-2		100	7	
6484522	Ammonium nitrate	06/91	e		100	1	
7783202	Ammonium sulfate	06/91	e		100	1	

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994058	tert-Amyl methyl ether	11/20	ChemSet-2		100	4	
62533	Aniline	09/90	e	c	5	1 2 3 4	
142041	Aniline hydrochloride	11/20	ChemSet-1	c	5	3 4	7
90040	o-Anisidine		e	c	100	1 2 3 4 5	
191264	Anthanthrene [PAH, POM] (see PAH)	11/20	(see cross-ref)		0.5		7
	- Anthracene [PAH, POM], (see PAH)		e		50	1 2	7
90640805	Anthracene oil	11/20	ChemSet-2		100		7
90640816	Anthracene oil, anthracene paste	11/20	ChemSet-2		100		7
91995152	Anthracene oil, anthracene paste, anthracene fraction	11/20	ChemSet-2		100		7
91995174	Anthracene oil, anthracene paste, distillation lights	11/20	ChemSet-2		100		7
90640827	Anthracene oil, anthracene-low	11/20	ChemSet-2		100		7
118923	Anthranilic acid	11/20	ChemSet-2		100		7
84651	Anthraquinone [PAH-Derivative/Related, POM]	11/20	ChemSet-2	c	0.5	3 4	
7440360	Antimony	06/91	e		1		7
	* Antimony compounds including but not limited to:	06/91	e		1	1 2	[7]
1309644	Antimony trioxide {Antimony oxide}	09/90	e	c	1	1 2 3 4	[7]
1314609	Antimony trioxide {Antimony oxide} (alt. CAS, see CAS 1309644)	11/20	e	c	1	1 2 3 4	[7] [21]
1345046	Antimony trisulfide	11/20	ExistGrp		1		7 [7]
7803523	Stibine {Antimony hydride}	11/20	ChemSet-2		1	1 2 3 4	7 [7]
24938645	p-Aramid fibrils	11/20	ChemSet-2		100		7
7440382	Arsenic		e	c	0.01	1 2 3 4 5	
	1016 Arsenic compounds (inorganic) including but not limited to:		e	c	0.01	1 2 3 4 5	[7]
7784421	Arsine		e	c	0.01	1 2 3	7 [7]
7778394	Arsenic acid	11/20	ExistGrp	c	0.01	3	7 [7] [19]
	* Arsenic (inorganic oxides)	11/20	ExistGrp	c	0.01	3 4	[7]
1303282	Arsenic pentoxide	11/20	ExistGrp	c	0.01	3 4	7 [7] [19]
1327533	Arsenic trioxide	11/20	ExistGrp	c	0.01	3 4	7 [7] [19]
7778441	Calcium arsenate	11/20	ExistGrp	c	0.01	3	7 [7]
1303000	Gallium arsenide	11/20	ExistGrp	c	0.01	3 4	[7]
	1017 Arsenic compounds (other than inorganic)	06/91	e		0.1	1	[7]
75605	Cacodylic acid {Dimethylarsinic acid}	11/20	ExistGrp	c	0.1	3	[7]
124583	Methylarsonic acid	11/20	ExistGrp	c	0.1	3	[7] [19]
	- Asbestos (all forms; see Mineral fibers)		e				
1912249	Atrazine	11/20	ChemSet-2		20	4	[19]
86500	Azinphosmethyl	11/20	ChemSet-2		100		7 [19]
131860338	Azoxystrobin	11/20	ChemSet-2		100		7
7440393	Barium	06/91	e		1		7
	* Barium Compounds	06/91	e		1	1	[7]
7727437	Barium sulfate	11/20	ExistGrp		1	1	7
22781233	Bendiocarb	11/20	ChemSet-2		50		7
17804352	Benomyl	11/20	ChemSet-2		0.01	4	[19]
741582	Bensulfide	11/20	ChemSet-2		100		7 [19]
100527	Benzaldehyde	11/20	ChemSet-2		100		7
	- Benz[a]anthracene [PAH, POM], (see PAH)		e	c	0.5	1 2 3 4 5	

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2498660	Benz[a]anthracene-7,12-dione [PAH-Derivative/Related, POM]	11/20	ChemSet-2		0.5		7
82053	Benzanthrone [PAH-Derivative/Related, POM]	11/20	ChemSet-2		0.5		7
71432	Benzene		e	c	2	1 2 3 4 5	
91156	1,2-Benzenedicarbonitrile (see Phthalonitrile)	11/20	(see cross-ref)		100		7
98113	Benzenesulfonic acid	11/20	ChemSet-2		100		7
108985	Benzenethiol	11/20	ChemSet-2		100		7
92875	Benzidine (and its salts) [POM]		e	c	0.0001	1 2 3 4 5	
1020	Benzidine-based dyes [POM] including but not limited to:		e	c	0.0001	1 2 3 4	
28407376	C.I. Direct Blue 218 [PAH-Derivative/Related, POM]	11/20	ChemSet-1	c	0.0001	4	
612828	3,3'-Dimethylbenzidine dihydrochloride	11/20	ChemSet-1	c	0.0001	4	
1937377	Direct Black 38 [PAH-Derivative/Related, POM]		e	c	0.0001	1 2 4 5	
2602462	Direct Blue 6 [PAH-Derivative/Related, POM]		e	c	0.0001	1 2 4 5	
16071866	Direct Brown 95 (technical grade) [POM]	09/89	e	c	0.0001	1 2 4	
214175	Benzo[b]chrysene [PAH, POM] (see PAH)	11/20	(see cross-ref)		0.5		7
	- Benzo[b]fluoranthene [PAH, POM], (see PAH)		e	c	0.5	1 2 3 4 5	
203123	Benzo[g,h,i]fluoranthene [PAH, POM] (see PAH)	11/20	(see cross-ref)		0.5		7
	- Benzo[j]fluoranthene [PAH, POM] (see PAH)		e	c	0.5	1 2 3 4 5	
	- Benzo[k]fluoranthene [PAH, POM] (see PAH)		e	c	0.5	1 2 3 4 5	
271896	Benzofuran	06/91	e	c	100	3 4	
98077	Benzoic trichloride {Benzotrachloride}		e	c	10	1 2 4 5	
100470	Benzonitrile	11/20	ChemSet-2		100		7
119619	Benzophenone	11/20	ChemSet-1	c	2	3 4	7
131577	Benzophenone-3 {BP3} {Oxybenzone}	11/20	ChemSet-2		100		7
	- Benzo[a]pyrene [PAH, POM], (see PAH)		e	c	0.05	1 2 3 4 5	
105113	p-Benzoquinone dioxime	11/20	ChemSet-2		100		7
98884	Benzoyl chloride	06/91	e	c	50	1 3	
94360	Benzoyl peroxide	06/91	e		100		7
100516	Benzyl alcohol	11/20	ChemSet-2		100		6 7
100447	Benzyl chloride		e	c	1	1 2 3 4	
7440417	Beryllium		e	c	0.001	1 2 3 4 5	
	* Beryllium compounds including but not limited to:	09/89	e	c	0.001	1 2 3 4 5	[7]
13510491	Beryllium sulfate	11/20	ExistGrp	c	0.001	3 4	[7]
7787566	Beryllium sulfate (tetrahydrate)	11/20	ExistGrp	c	0.001	3 4	[7]
1304569	Beryllium oxide	11/20	ExistGrp	c	0.001	3 4	[7]
82657043	Bifenthrin	11/20	ChemSet-2		0.05		7 [19]
92524	Biphenyl [POM]	06/91	e		0.5	1 2	
3296900	2,2-Bis(bromomethyl)propane-1,3-diol (see Brominated and Chlorinated Organic Compounds Used as Flame Retardants)	11/20	(see cross-ref)	c	50	3 4 5	
111444	Bis(2-chloroethyl) ether {DCEE}	09/89	e	c	0.05	1 2 4	[19]
39638329	Bis(2-chloroisopropyl) ether	11/20	ChemSet-2		0.05		7
542881	Bis(chloromethyl) ether		e	c	0.001	1 2 3 4 5	
108601	Bis(2-chloro-1-methylethyl) ether {BCMEE}	06/91	ChemSet-1	c	50	4	7
	Bis(2-chloro-1-methylethyl) ether, Technical grade: mixture of CAS 108601 and 83270319						
	- (see Bis(2-Chloro-1-methylethyl)ether)	11/20	(see cross-ref)	c	50	4	7
2386905	Bis(2,3-epoxycyclopentyl) ether	11/20	ChemSet-2		100		7

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103231	Bis(2-ethylhexyl) adipate	06/91	e		100	1	
80057	Bisphenol A {BPA}	11/20	ChemSet-2		100	1 2	6
1675543	Bisphenol A diglycidyl ether {BADGE} {Araldite}	11/20	ChemSet-2		100		6
1478611	Bisphenol AF {BPAF} {Hexafluorobisphenol A}	11/20	ChemSet-2		100		7
77407	Bisphenol B {BPB}	11/20	ChemSet-2		100		7
620928	Bisphenol F {BPF}	11/20	ChemSet-2		100		7
2095036	Bisphenol F diglycidyl ether {BFDGE}	11/20	ChemSet-2		100		7
80091	Bisphenol S {BPS}	11/20	ChemSet-2		100		7
56359	Bis(tributyltin) oxide {TBTO}	11/20	ChemSet-2		5		7
1303862	Boron oxide	11/20	ChemSet-2		100		7 [19]
10294334	Boron tribromide	11/20	ChemSet-2		100		7
10294345	Boron trichloride	11/20	ChemSet-2		100		7
	-- Boron trifluoride complexes including but not limited to:	11/20	ChemSet-2		100		6
7637072	Boron trifluoride	11/20	ChemSet-2		100		6
13319750	Boron trifluoride dihydrate	11/20	ChemSet-2		100		6
109637	Boron trifluoride ethers	11/20	ChemSet-2		100		7
353424	Boron trifluoride ethers (alt. CAS, see CAS 109637)	11/20	(see cross-ref)		100		7
314409	Bromacil	11/20	ChemSet-2		100		7
53404196	Bromacil lithium salt	11/20	ChemSet-2		100	4	[19]
	-- Brominated and Chlorinated Organic Compounds used as Flame Retardants:	11/20	-		100		7
3278895	Allyl 2,4,6-tribromophenyl ether {ATE}	11/20	ChemSet-2		100		7
3296900	2,2-Bis(bromomethyl)-1,3-propanediol	11/20	ChemSet-2	c	50	3 4 5	
38051104	2,2-Bis(chloromethyl)trimethylene bis[bis(2-chloroethyl)phosphate]	11/20	ChemSet-2		100		7
26040517	Bis(2-ethyl-1-hexyl)tetrabromophthalate {TBPH}	11/20	ChemSet-2		100		7
13560899	Bis(hexachlorocyclopentadieno)cyclooctane	11/20	ChemSet-2		100		7
37853591	1,2-Bis(2,4,6-tribromophenoxy)ethane {BTBPE}	11/20	ChemSet-2		100		7
1042	Brominated Polystyrenes	11/20	ChemSet-2		50		7
99717563	2-Bromoallyl 2,4,6-tribromophenyl ether {BATE}	11/20	ChemSet-2		100		7
115286	Chlorendic acid	09/89	e	c	50	3 4 5	
108171262	Chlorinated paraffins (see Chlorinated Paraffins: average chain length, C12; approximately 60% Chlorine by weight) (This includes C10-13, chloro Short Chain Chlorinated Paraffins)	11/20	e	c	2	3 4 5	
84852539	Decabromodiphenyl ethane {DBDPE}	11/20	ChemSet-1		1		7
1163195	Decabromodiphenyl ether (see Polybrominated diphenyl ethers: Decabromodiphenyl oxide)	11/20	(see cross-ref)		1	1 2	
3322938	1,2-Dibromo-4-(1,2-dibromoethyl)cyclohexane {TBECH}	11/20	ChemSet-2		100		7
615587	2,4-Dibromophenol	11/20	ChemSet-2		100		7
35109605	2,3-Dibromopropyl-2,4,6-tribromophenyl ether {DPTE}	11/20	ChemSet-2		100		7
183658277	2-Ethyl-1-hexyl-2,3,4,5-tetrabromobenzoate {TBB}	11/20	ChemSet-2		100		7
860302336	Firemaster® 550	11/20	ChemSet-2		100		7
87821	Hexabromobenzene {HBB}	11/20	ChemSet-2		10		7
59080409	2,2',4,4',5,5'-Hexabromobiphenyl	11/20	ChemSet-2		10		5
67774327	Hexabromobiphenyl mixture including Firemaster FF-1	11/20	ChemSet-2		10		5
36355018	Hexabromobiphenyls	11/20	ChemSet-2		10		5
25637994	Hexabromocyclododecane {HBCD}	11/20	ChemSet-1		100		7
51936551	Hexachlorocyclopentadienyl-dibromocyclooctane	11/20	ChemSet-2		100		7
20566352	2-Hydroxypropyl 2-(2-hydroxyethyl)ethyl tetrabromophthalate	11/20	ChemSet-2		100		7 [21]

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203210699	2-Hydroxypropyl 2-(2-hydroxyethyl)ethyl tetrabromophthalate (alt. CAS No. 1, see CAS 20566352)	11/20	(see cross-ref)		100	7	[21]
1150314503	2-Hydroxypropyl 2-(2-hydroxyethyl)ethyl tetrabromophthalate (alt. CAS No. 2, see CAS 20566352)	11/20	(see cross-ref)		100	7	[21]
1429904277	2-Hydroxypropyl 2-(2-hydroxyethyl)ethyl tetrabromophthalate (alt. CAS No. 3, see CAS 20566352)	11/20	(see cross-ref)		100	7	[21]
1121	Isobutoxypentabromocyclododecanes {iBPBCDs}	11/20	ChemSet-2		100	7	
155613937	Octabromotrimethylphenylindane {OBIND}	11/20	ChemSet-2		100	7	
	- PBDEs (see Polybrominated diphenyl ethers)	11/20	(see cross-ref)		1	7	
85223	Pentabromoethylbenzene {PBEB}	11/20	ChemSet-2		100	7	
608719	Pentabromophenol {PBP}	11/20	ChemSet-2		100	7	
87832	Pentabromotoluene {PBT}	11/20	ChemSet-2		100	7	
42757551	1,1'-Sulfonylbis[3,5-dibromo-4-(2,3- dibromopropoxy)benzene]	11/20	ChemSet-2		100	7	
79947	Tetrabromobisphenol A {TBBPA}	11/20	ChemSet-1	c	50	3 4	
21850442	Tetrabromobisphenol A bis(2,3-dibromopropyl) ether {TBBPA-DBPE}	11/20	ChemSet-1		100	7	
4162452	Tetrabromobisphenol A bis(2-hydroxyethyl) ether	11/20	ChemSet-2		100	7	
25327893	Tetrabromobisphenol A diallyl ether	11/20	ChemSet-2		100	7	[21]
37769316	Tetrabromobisphenol A diallyl ether (alt. CAS, see CAS 25327893)	11/20	(see cross-ref)		100	7	[21]
77098078	Tetrabromophthalic acid, mixed esters	11/20	ChemSet-1		100	7	
75790691	Tetrabromophthalic acid, mixed esters (alt. CAS, see CAS 77098078)	11/20	(see cross-ref)		100	7	[21]
23488382	2,3,5,6-Tetrabromo-p-xylene	11/20	ChemSet-2		100	7	
36483575	Tribromoneopentylalcohol	11/20	ChemSet-2		100	7	
118796	2,4,6-Tribromophenol	11/20	ChemSet-1		100	7	
115968	Tris(2-chloroethyl) phosphate {TCEP}	11/20	(see cross-ref)	c	50	4	
13674845	Tris(1-chloro-2-propyl)phosphate {TCPP}	11/20	(see cross-ref)		100	7	[21]
1689320	Tris(1-chloro-2-propyl)phosphate {TCPP} (alt. CAS No. 1, see CAS 13674845)	11/20	(see cross-ref)		100	7	[21]
98112324	Tris(1-chloro-2-propyl)phosphate {TCPP} (alt. CAS No. 2, see CAS 13674845)	11/20	(see cross-ref)		100	7	[21]
52434909	Tris(2,3-dibromopropyl) isocyanurate	11/20	ChemSet-1		100	7	
126727	Tris(2,3-dibromopropyl) phosphate {TDBPP}	09/89	e	c	50	3 4	
13674878	Tris(1,3-dichloro-2-propyl) phosphate {TCDP} {TDCPP}	11/20	(see cross-ref)	c	10	4	
78433	Tris(2,3-dichloro-1-propyl) phosphate	11/20	ChemSet-2		100	7	
19186971	Tris(tribromoneopentyl)phosphate	11/20	ChemSet-2		100	7	
25713604	2,4,6-Tris(2,4,6-tribromophenoxy)-1,3,5-triazine	11/20	ChemSet-2		100	7	
56362017	2,4,6-Tris(2,4,6-tribromophenoxy)-1,3,5-triazine (alt. CAS No. 1, see CAS 25713604)	11/20	(see cross-ref)		100	7	[21]
157971545	2,4,6-Tris(2,4,6-tribromophenoxy)-1,3,5-triazine (alt. CAS No. 2, see CAS 25713604)	11/20	(see cross-ref)		100	7	[21]
136991021	2,4,6-Tris(2,4,6-tribromophenoxy)-1,3,5-triazine (alt. CAS No. 3, see CAS 25713604)	11/20	(see cross-ref)		100	7	[21]
7726956	Bromine		e		0.5	2	
	* Bromine compounds (inorganic) including but not limited to:		e		100	1 2	[7]
15541454	Bromate	11/20	ChemSet-1	c	50	4	
7789302	Bromine pentafluoride	11/06	e		100	7	
10035106	Hydrogen bromide	11/06	e		20	7	
7758012	Potassium bromate		e	c	0.1	1 3 4	[7]
108861	Bromobenzene	11/20	ChemSet-2		10	7	
5589968	Bromochloroacetic acid	11/20	ChemSet-1	c	50	3 4	
83463621	Bromochloroacetonitrile	11/20	ChemSet-1		100	7	
109706	1-Bromo-3-chloropropane	11/20	ChemSet-1	c	50	3	
71133147	Bromodichloroacetic acid	11/20	ChemSet-1	c	50	4	



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75274	Bromodichloromethane {BDCM}	11/20	ChemSet-1		100		7
74964	Ethyl bromide {Bromoethane}	11/20	ChemSet-1	c	50	4	
75252	Bromoform	06/91	e	c	100	1 2 4	
27497514	Bromonaphthalene	11/20	ChemSet-2		100		7
106945	1-Bromopropane (see n-Propyl Bromide)	11/20	(see cross-ref)	c	50	3 4 5 6	
75263	2-Bromopropane	11/20	ChemSet-2		100	4	
1689992	Bromoxynil octanoate	11/20	ChemSet-2		100	4	[19]
106990	1,3-Butadiene		e	c	0.1	1 2 3 4 5	
57018527	1-tert-Butoxypropan-2-ol (see Glycol Ethers: Propylene glycol t-butyl ether)	11/20	(see cross-ref)	c	50	3 6	
540885	t-Butyl acetate {TBAC}	11/06	e	c	50		7
141322	Butyl acrylate	06/91	e		100	1	
71363	n-Butyl alcohol	06/91	e		100	1	
78922	sec-Butyl alcohol	06/91	e		100	1	
75650	tert-Butyl alcohol	06/91	e		100	1	
85687	Butyl benzyl phthalate {BBP} {BzBP} (see Phthalates, ortho-Phthalates)	06/91	e		100	1 4	
1189851	tert-Butyl chromate(VI) (see Chromium, hexavalent (and compounds))	11/20	(see cross-ref)	c	0.001	1 2 4 5 7	
2426086	n-Butyl glycidyl ether {Butyl 2,3-epoxypropylether}	11/20	ChemSet-1	c	50	3 4 6	
75912	tert-Butyl hydroperoxide	11/20	ChemSet-2		100		7
81152	5-tert-Butyl-2,4,6-trinitro-m-xylene	11/20	ChemSet-2		100		7
98511	p-tert-Butyltoluene	11/20	ChemSet-2		100		7
96480	gamma-Butyrolactone	11/20	ChemSet-2		100		7
109740	n-Butyronitrile	11/20	ChemSet-2		100		7
7440439	Cadmium		e	c	0.01	1 2 3 4 5	
	* Cadmium compounds including but not limited to:		e	c	0.01	1 2 3 4 5	[7]
10108642	Cadmium chloride	11/20	ExistGrp	c	0.01	3 4	7 [7] [19]
141004	Cadmium succinate	11/20	ExistGrp	c	0.01	3 4	7 [7] [19]
95465999	Cadusafos	11/20	ChemSet-2		0.5		7 [19]
156627	Calcium cyanamide	06/91	e		100	1 2	
1305788	Calcium oxide	11/20	ChemSet-2		100		7
1046	Cannabis (Marijuana) smoke	11/20	ChemSet-2	c	50	4	
1047	Cannabis (Marijuana) vaping vapor	11/20	ChemSet-2		100	4	
105602	Caprolactam	06/91	e		100	1 2 4	
2425061	Captafol	09/89	e	c	100	3 4	
133062	Captan	09/90	e	c	100	1 2 4	
63252	Carbaryl [PAH-Derivative/Related, POM]	06/91	Chemset-1	c	100	1 2 4	
86748	Carbazole [PAH-Derivative/Related, POM]	11/20	ChemSet-1	c	5	3 4	
1563662	Carbofuran	11/20	ChemSet-2		50		7 [19]
1333864	Carbon black	11/20	ChemSet-2	c	50	3 4	
1050	Carbon black extracts		e	c	2	1 3 4	
75150	Carbon disulfide	09/89	e		200	1 2 4	
	-- Carbon nanotubes including but not limited to	11/20	-		50	3	
308068566	Carbon nanotubes, multiwalled, other than MWCNT-7	11/20	ChemSet-1	c	50	3	
56235	Carbon tetrachloride		e	c	1	1 2 3 4 5	
353504	Carbonyl fluoride	11/20	ChemSet-2		100		7

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Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Effective Phase [Note 23]	Carcinogen [Note 4]	Applicable Degree of Accuracy (lb/yr) [Note 5]	Source List(s) [Note 6]	Other Note(s)
463581	Carbonyl sulfide	06/91	e		100	1 2	
1055	Carrageenan (degraded)		e	c	100	3 4	
120809	Catechol	06/91	e	c	50	1 2 3 4	
7440451	Cerium and compounds	11/20	ChemSet-2		100		7 [7]
75876	Chloral	11/20	ChemSet-1	c	50	3 4	7
133904	Chloramben	06/91	e		100	1 2	
10599903	Chloramine	11/20	ChemSet-1		100		7
57749	Chlordane	09/89	e	c	10	1 2 3 4	
115286	Chlorendic acid (see also Brominated and Chlorinated Organic Compounds used as Flame Retardants)	09/89	e	c	50	3 4 5	
108171262	Chlorinated paraffins (average chain length, C12; approximately 60% Chlorine by weight; this includes C10-13, chloro Short Chain Chlorinated Paraffins; see also Brominated and Chlorinated Organic Compounds used as Flame Retardants)	09/89	e	c	2	3 4 5	
31242930	Chlorinated diphenyl oxide {Hexachlorodiphenyl ether}	11/20	ChemSet-2		10		7
7782505	Chlorine		e		0.5	1 2	
10049044	Chlorine dioxide	06/91	e		1	1	
7790912	Chlorine trifluoride	11/20	ChemSet-1		0.05		7
79118	Chloroacetic acid	06/91	e		100	1 2	
107142	Chloroacetonitrile	11/20	ChemSet-2		100		7
532274	2-Chloroacetophenone	06/91	e		0.1	1 2	
106478	p-Chloroaniline	07/96	e	c	50	3 4	7
20265967	p-Chloroaniline hydrochloride	11/20	ChemSet-1	c	50	4	
1058	Chlorobenzenes including but not limited to:	06/91	e		100	1	
108907	Chlorobenzene		e		200	1 2	
25321226	Dichlorobenzenes (mixed isomers) including:	06/91	e		100	1	7
95501	1,2-Dichlorobenzene	06/91	e		200	1	7
541731	1,3-Dichlorobenzene	06/91	e		100	1	7
106467	p-Dichlorobenzene {1,4-Dichlorobenzene}		e	c	5	1 2 3 4 5	
634662	1,2,3,4-Tetrachlorobenzene	11/20	ChemSet-2		100		7
95943	1,2,4,5-Tetrachlorobenzene	11/20	ChemSet-2		100		7
12408105	Tetrachlorobenzene (mixed isomers)	11/20	ChemSet-2		100		7
87616	1,2,3-Trichlorobenzene	11/20	ChemSet-2		100		7
120821	1,2,4-Trichlorobenzene	06/91	e		200	1 2	
510156	Chlorobenzilate [POM] {Ethyl-4,4'-dichlorobenzilate}	09/90	e	c	100	1 2 4	
98566	4-Chlorobenzotrifluoride {PCBTF} (see 1-Chloro-4-(trifluoromethyl)benzene)	11/20	(see cross-ref)	c	50	3	6
77439760	3-Chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone	11/20	ChemSet-2	c	50	3 4	
67663	Chloroform		e	c	10	1 2 3 4 5	
1319864	Chloromethoxy Propyl Mercuric Acetamide	11/20	ChemSet-2		100		7 [19]
83270319	2-Chloro-1-methylethyl(2-chloropropyl) ether	11/20	ChemSet-1	c	50	4	7
107302	Chloromethyl methyl ether (technical grade)		e	c	100	1 2 3 4 5	
91587	2-Chloronaphthalene [PAH-Derivative/Related, POM]	11/20	ChemSet-1		0.5		7
--	Chloronitrobenzenes including but not limited to:	11/20	-		100		7
88733	1-Chloro-2-nitrobenzene {o-Chloronitrobenzene}	11/20	ChemSet-1	c	50	3 4	7
100005	1-Chloro-4-nitrobenzene {p-Chloronitrobenzene}	11/20	ChemSet-1	c	50	3 4	
89612	1,4-Dichloro-2-nitrobenzene	11/20	ChemSet-1	c	50	3 4	

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611063	2,4-Dichloro-1-nitrobenzene	11/20	ChemSet-1	c	50	3 4	
121733	m-Chloronitrobenzene {3-Chloronitrobenzene}	11/20	ChemSet-1		100		7
82688	Pentachloronitrobenzene {Quintobenzene}	06/91	e		100	1 2	
1060	Chlorophenols including but not limited to:		e	c	100	1 3	
95578	2-Chlorophenol	11/06	e		10	1 3	
108430	3-Chlorophenol {m-Chlorophenol}	11/20	ChemSet-2		100	1	
106489	4-Chlorophenol {p-Chlorophenol}	11/20	ChemSet-2		100	1	
120832	2,4-Dichlorophenol	06/91	e	c	100	1 3	7
583788	2,5-Dichlorophenol	11/20	ChemSet-2	c	100		7
87865	Pentachlorophenol	09/90	e	c	10	1 2 3 4	
25167833	Tetrachlorophenols including but not limited to:	11/06	e	c	10	3	7
58902	2,3,4,6-Tetrachlorophenol	07/96	e	c	100	1 3	7
95954	2,4,5-Trichlorophenol	06/91	e	c	100	1 2 3	
136323	2,4,5-Trichlorophenol sodium salt	11/20	ChemSet-2	c	100		7 [19]
88062	2,4,6-Trichlorophenol		e	c	2	1 2 3 4	
3380345	Triclosan {2,4,4'-Trichloro-2'-hydroxydiphenyl ether}	11/20	ChemSet-2	c	100	3	7
95830	4-Chloro-o-phenylenediamine		e	c	10	3 4 5	
76062	Chloropicrin		e		2		7
126998	Chloroprene		e	c	5	1 2 3 4	
598787	2-Chloropropionic acid	11/20	ChemSet-2		100	4	
78897	2-Chloroproponal	11/20	ChemSet-2		100		7
106434	p-Chlorotoluene	11/20	ChemSet-2		100		7
1897456	Chlorothalonil	09/89	e	c	50	3 4	
95794	5-Chloro-o-toluidine and its strong acid salts	11/20	ChemSet-1	c	0.5	4	
95692	p-Chloro-o-toluidine		e	c	0.5	3 4	
3165933	p-Chloro-o-toluidine Hydrochloride	11/20	ChemSet-1	c	0.5	4 5	
75729	Chlorotrifluoromethane {CFC-13}	11/20	ChemSet-2		100		7
98566	1-Chloro-4-(trifluoromethyl)benzene {PCBTF}	11/20	ChemSet-1	c	50	3 6	
2921882	Chlorpyrifos	11/20	ChemSet-2		20	4	[19]
1861321	Chlorthal-dimethyl	11/20	ChemSet-2		10		7 [19]
7440473	Chromium	06/91	e		0.001		7
	* Chromium compounds (other than hexavalent) including but not limited to:	06/91	e		0.001	1 2	[7]
16065831	Chromium (III) compounds including but not limited to:	11/20	ExistGrp		50		7 [7]
39345921	Chromium (III) chloride	11/20	ExistGrp		50		7 [7]
10101538	Chromium (III) sulfate	11/20	ExistGrp		50		7 [7]
18540299	Chromium, hexavalent (and compounds) including but not limited to:		e	c	0.0001	1 2 3 4 5	[7]
10294403	Barium chromate	06/91	e	c	0.001	1 2 4 5	[7]
1189851	tert-Butyl chromate(VI)	11/20	ChemSet-1	c	0.001	1 2 4 5	7 [7]
13765190	Calcium chromate	06/91	e	c	0.001	1 2 4 5	[7]
1333820	Chromium trioxide	06/91	e	c	0.0001	1 2 4 5	[7]
7758976	Lead chromate	06/91	e	c	0.001	1 2 4 5	[7]
10588019	Sodium dichromate	06/91	e	c	0.0001	1 2 4 5	[7]
7789062	Strontium chromate	06/91	e	c	0.001	1 2 4 5	[7]
	- Chrysene [PAH, POM], (see PAH)		e	c	5	1 2 3 4	

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Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Effective Phase [Note 23]	Carcinogen [Note 4]	Applicable Degree of Accuracy (lb/yr) [Note 5]	Source List(s) [Note 6]	Other Note(s)
28407376	C.I. Direct Blue 218 [PAH-Derivative/Related, POM] (see Benzidine-based dyes)	11/20	(see cross-ref)	c	0.0001	4	
1215	Coal dust	11/20	ChemSet-2		50		7
8007452	Coal tars	09/89	e	c	50	3 4 5	
7440484	Cobalt	06/91	e	c	0.01	3 4	7 [7]
	* Cobalt compounds	06/91	e	c	0.01	1 2 3	[7]
1216	Cobalt compounds, insoluble, including but not limited to:	11/20	ExistGrp	c	0.01	3	[7]
513791	Cobalt carbonate	11/20	ExistGrp	c	0.01	3	7 [7]
10210681	Cobalt carbonyl	11/20	ExistGrp	c	0.01	3	7 [7]
21041930	Cobalt hydroxide	11/20	ExistGrp	c	0.01	3	7 [7]
814891	Cobalt oxalate	11/20	ExistGrp	c	0.01	3	7 [7]
1307966	Cobalt [II] oxide	11/20	ExistGrp	c	0.01	3 4	[7]
1308061	Cobalt [III] oxide	11/20	ExistGrp	c	0.01	3	7 [7]
1317426	Cobalt sulfide	11/20	ExistGrp	c	0.01	3	7 [7]
1217	Cobalt sulfate and other soluble cobalt compounds, including but not limited to:	11/20	ExistGrp	c	0.1	3	[7]
71487	Cobalt acetate (tetrahydrate)	11/20	ExistGrp	c	0.5	3	7 [7]
7646799	Cobalt chloride (hexahydrate)	11/20	ExistGrp	c	0.5	3	7 [7]
16842038	Cobalt hydrocarbonyl	11/20	ExistGrp	c	0.5	3	7 [7]
10141056	Cobalt nitrate (hexahydrate)	11/20	ExistGrp	c	0.5	3	7 [7]
136527	Cobalt octoate	11/20	ExistGrp	c	0.5	3	7 [7]
10124433	Cobalt sulfate	11/20	ExistGrp	c	0.1	3 4	[7]
10026241	Cobalt sulfate (heptahydrate)	11/20	ExistGrp	c	0.5	3 4	7 [7]
12070121	Cobalt metal with tungsten carbide	11/20	ExistGrp	c	0.01	3	[7]
1066	Coke oven emissions		e	c	0.05	1 2 3 4 5	
7440508	Copper		e		0.1	2	
	* Copper compounds including but not limited to:	09/89	e		0.1	1 2	[7]
	* Copper fume (as Copper)	11/20	ExistGrp		0.1		7 [7]
1070	Creosotes		e	c	0.05	1 3 4	
8001589	Creosotes		e	c	0.05	1 3 4	
102501	meta-Cresidine	11/20	e		100		7
120718	p-Cresidine		e	c	1	3 4 5	
1319773	Cresols (mixtures of) {Cresylic acid} including:		e		5	1 2	
108394	m-Cresol	06/91	e		5	1 2	
95487	o-Cresol	06/91	e		5	1 2	
106445	p-Cresol	06/91	e		5	1 2	
4170303	Crotonaldehyde	07/96	e	c	50		7
98828	Cumene	06/91	e	c	50	1 2 3 4	
80159	Cumene hydroperoxide	06/91	e		100	1	
135206	Cupferron		e	c	0.5	3 4 5	
420042	Cyanamide {Hydrogen cyanamide}	11/20	ChemSet-2		100		7 [19]
1073	Cyanide compounds (inorganic) including but not limited to:	06/91	e		0.05	1 2	[8]
74908	Hydrogen cyanide {HCN} {Hydrocyanic acid}		e		10	2 4	[8]
341972314	Hydrogen cyanide {HCN} {Hydrocyanic acid} (alt. CAS No. 1, see CAS 74908)	11/20	e		100	2 4	[8] [21]
191234227	Hydrogen cyanide {HCN} {Hydrocyanic acid} (alt. CAS No. 2, see CAS 74908)	11/20	e		100	2 4	[8] [21]
592018	Calcium cyanide	11/20	ChemSet-2		0.05	2 4	[8]

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151508	Potassium cyanide	11/20	ChemSet-2		0.05	4	[8]
143339	Sodium cyanide	11/20	ChemSet-2		0.05	4	[8]
372098	Cyanoacetic acid	11/20	ChemSet-2		100	7	
506774	Cyanogen chloride	11/20	ChemSet-2		0.1	7	
1134232	Cycloate	11/20	ChemSet-2		5	4	[19]
121824	Cyclonite	11/20	ChemSet-2		100	7	
	1074 Cyclosiloxanes, including but not limited to:	11/20	ChemSet-1		100	7	
541026	Decamethylcyclopentasiloxane {D5} {Decamethyl-1,3,5,7,9,2,4,6,8,10-pentaoxapentasiloxane}	11/20	ChemSet-1		100	6 7	
540976	Dodecamethylcyclohexasiloxane {D6}	11/20	ChemSet-1		100	7	
556672	Octamethylcyclotetrasiloxane {D4}	11/20	ChemSet-1		100	7	
294622	Cyclododecane	11/20	ChemSet-2		100	7	
110827	Cyclohexane	06/91	e		200	1	
1569693	Cyclohexanethiol	11/20	ChemSet-2		100	7	
108930	Cyclohexanol	07/96	e		200	7	
108941	Cyclohexanone	11/20	ChemSet-2		100	7	
66819	Cycloheximide		e		2	4 6	
29965977	Cyclooctadienes	11/20	ChemSet-2		100	7	
27208373	Cyclopenta[cd]pyrene [PAH] (see PAH)	11/20	(see cross-ref)	c	50	3 4	
50293	DDT {1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane} {Clofenotane} [POM]		e	c	50	1 2 3 4 5	
17702419	Decaborane	11/20	ChemSet-1		20	7	
	Decabromodiphenyl oxide [POM] (see Polybrominated diphenyl ethers, see also Brominated Flame Retardants)	06/91	e		1	1 2	
91178	Decahydronaphthalene	11/20	ChemSet-2		100	7	
541026	Decamethylcyclopentasiloxane {D5} (see Cyclosiloxanes: Decamethylcyclopentasiloxane)	11/20	(see cross-ref)		100	6 7	
1007289	Des-isopropyl atrazine	11/20	ChemSet-2		100	4	[19]
431038	Diacetyl	11/20	ChemSet-1		100	6	
	1075 Dialkylnitrosamines including but not limited to:		e		0.001	1	
924163	N-Nitrosodi-n-butylamine		e	c	0.0001	1 3 4 5	
1116547	N-Nitrosodiethanolamine		e	c	100	1 3 4 5	
55185	N-Nitrosodiethylamine		e	c	0.001	1 3 4 5	
62759	N-Nitrosodimethylamine		e	c	0.01	1 2 3 4 5	
621647	N-Nitrosodi-n-propylamine		e	c	0.01	1 3 4 5	
10595956	N-Nitrosomethylethylamine		e	c	0.001	1 3 4	
7068839	N-Nitrosomethyl-n-butylamine	11/20	ChemSet-1	c	1	4	
75881220	N-Nitrosomethyl-n-decylamine	11/20	ChemSet-1	c	1	4	
55090443	N-Nitrosomethyl-n-dodecylamine	11/20	ChemSet-1	c	1	4	
16338991	N-Nitrosomethyl-n-heptylamine	11/20	ChemSet-1	c	1	4	
28538707	N-Nitrosomethyl-n-hexylamine	11/20	ChemSet-1	c	1	4	
75881195	N-Nitrosomethyl-n-nonylamine	11/20	ChemSet-1	c	1	4	
34423546	N-Nitrosomethyl-n-octylamine	11/20	ChemSet-1	c	1	4	
13256070	N-Nitrosomethyl-n-pentylamine	11/20	ChemSet-1	c	1	4	
924469	N-Nitrosomethyl-n-propylamine	11/20	ChemSet-1	c	1	4	
75881208	N-Nitrosomethyl-n-tetradecylamine	11/20	ChemSet-1	c	1	4	
68107266	N-Nitrosomethyl-n-undecylamine	11/20	ChemSet-1	c	1	4	
615054	2,4-Diaminoanisole		e	c	5	3 4	

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5307142	1,4-Diamino-2-nitrobenzene	11/20	ChemSet-2		5		7
99569	1,2-Diamino-4-nitrobenzene {4-Nitro-o-Phenylenediamine}	11/20	ChemSet-2		5		7
1078	Diaminotoluenes (mixed isomers) including but not limited to:	09/90	e	c	100	1 4	
95807	2,4-Diaminotoluene {2,4-Toluene diamine}		e	c	0.05	1 2 3 4 5	
95705	2,5-Diaminotoluene {2,5-Toluene diamine}	11/20	ChemSet-2		100		7
333415	Diazinon	11/20	ChemSet-2	c	10	3	[19]
136356	Diazoaminobenzene	11/20	ChemSet-2	c	50	4 5	
334883	Diazomethane	06/91	e	c	5	1 2	
226368	Dibenz[a,h]acridine [POM]		e	c	0.5	1 2 3 4 5	
224420	Dibenz[a,j]acridine [POM]		e	c	0.5	1 2 3 4 5	
224533	Dibenz[c,h]acridine [POM]	11/20	ChemSet-2	c	50	3	
	- Dibenz[a,h]anthracene [PAH, POM], (see PAH)		e	c	0.1	1 2 3 4 5	
194592	7H-Dibenzoc,g]carbazole		e	c	0.05	1 2 3 4 5	
	- Dibenzo[a,e]pyrene [PAH, POM], (see PAH)		e	c	0.05	1 2 4 5	
	- Dibenzo[a,h]pyrene [PAH, POM], (see PAH)		(see cross ref)	c	0.001	1 2 3 4 5	
	- Dibenzo[a,i]pyrene [PAH, POM], (see PAH)		(see cross ref)	c	0.001	1 2 3 4 5	
	- Dibenzo[a,l]pyrene [PAH, POM], (see PAH)		(see cross ref)	c	0.001	1 2 3 4 5	
132649	Dibenzofuran [POM]	06/91	e		100	1 2	
	- Dibenzofurans (chlorinated) (see Polychlorinated dibenzofurans) [POM]		e				
631641	Dibromoacetic acid	11/20	ChemSet-1	c	50	3 4	
3252435	Dibromoacetonitrile	11/20	ChemSet-1	c	50	3 4	
124481	Dibromochloromethane {Chlorodibromomethane} {DBCM}	09/90	e		100		7
96128	1,2-Dibromo-3-chloropropane {DBCP}		e	c	0.01	1 2 3 4 5	
615587	2,4-Dibromophenol (see Brominated and Chlorinated Organic Compounds Used as Flame Retardants)	11/20	(see cross-ref)		100		7
96139	2,3-Dibromo-1-propanol	07/96	e	c	50	3 4	
2528361	Dibutyl phenyl phosphate	11/20	ChemSet-2		100		7
107664	Dibutyl phosphate	11/20	ChemSet-2		100		7
84742	Dibutyl phthalate {Di-n-butyl phthalate} {DBP} {DnBP} (see Phthalates, ortho-Phthalates)	06/91	e		100	1 2 4	
79436	Dichloroacetic acid	11/20	ChemSet-2	c	50	3 4	
7572294	Dichloroacetylene	11/20	ChemSet-2		100		7
27134276	Dichloroaniline (mixed isomers)	11/20	ChemSet-2		100		7
	- p-Dichlorobenzene (1,4-Dichlorobenzene) (see Chlorobenzenes)		e				
91941	3,3'-Dichlorobenzidine [POM]		e	c	0.1	1 2 3 4 5	
612839	3,3'-Dichlorobenzidine dihydrochloride	11/20	ChemSet-2	c	50	4 5	
764410	1,4-Dichloro-2-butene	09/90	e	c	50	4	[19]
110576	trans-1,4-Dichlorobutene	11/20	ChemSet-2		100		7
72559	Dichlorodiphenyldichloroethylene {DDE} [POM]	09/89	e	c	100	1 2 4	
75343	1,1-Dichloroethane {Ethylidene dichloride}	09/90	e	c	20	1 2 4	
156592	cis-1,2-Dichloroethene {cis-1,2-Dichloroethylene}	11/20	ChemSet-2		100		6
540590	1,2-Dichloroethene {1,2-Dichloroethylene} {DCE}	06/91	e		100		6 7
156605	trans-1,2-Dichloroethene {trans-1,2-Dichloroethylene}	11/20	ChemSet-2		50		6
611063	2,4-Dichloro-1-nitrobenzene (see Chloronitrobenzenes)	11/20	(see cross-ref)	c	50	3 4	
	-- Dichlorophenoxyacetic acid {2,4-D} and its salts and esters including but not limited to:	06/91	e	c	50	1 2 3	[19]
94757	2,4-Dichlorophenoxyacetic acid {2,4-D}	11/20	ChemSet-2	c	50	1 2 3	[19]

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Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Effective Phase [Note 23]	Carcinogen [Note 4]	Applicable Degree of Accuracy (lb/yr) [Note 5]	Source List(s) [Note 6]	Other Note(s)
2702729	2,4-Dichlorophenoxyacetic acid salt	11/20	ChemSet-2	c	50	1 2 3	[19]
5742198	2,4-Dichlorophenoxyacetic acid diethanolamine salt	11/20	ChemSet-2	c	50	1 2 3	7 [19]
2008391	2,4-Dichlorophenoxyacetic acid dimethylamine salt	11/20	ChemSet-2	c	50	1 2 3	7 [19]
5742176	2,4-Dichlorophenoxyacetic acid isopropylamine salt	11/20	ChemSet-2	c	50	1 2 3	7 [19]
32341803	2,4-Dichlorophenoxyacetic acid isopropanolamine salt	11/20	ChemSet-2	c	50	1 2 3	7 [19]
1929733	2,4-Dichlorophenoxyacetic acid butoxyethyl ester	11/20	ChemSet-2	c	50	1 2 3	7 [19]
94804	2,4-Dichlorophenoxyacetic acid butyl ester	11/20	ChemSet-2	c	50	1 2 3	7 [19]
1928434	2,4-Dichlorophenoxyacetic acid 2-ethylhexyl ester	11/20	ChemSet-2	c	50	1 2 3	7 [19]
94111	2,4-Dichlorophenoxyacetic acid isopropyl ester	11/20	ChemSet-2	c	50	1 2 3	7 [19]
25168267	2,4-Dichlorophenoxyacetic acid isoocetyl ester	11/20	ChemSet-2	c	50	1 2 3	7 [19]
1048373723	2,4-Dichlorophenoxyacetic acid choline salt	11/20	ChemSet-2	c	50	1 2 3	7 [19]
609201	2,6-Dichloro-p-phenylenediamine	11/20	ChemSet-2		50	1 2	7 [19]
78875	1,2-Dichloropropane (Propylene dichloride)	09/90	e	c	20	1 2 3 4	
542756	1,3-Dichloropropene		e	c	10	1 2 3 4 5	
96231	1,3-Dichloro-2-propanol	11/20	ChemSet-2	c	50	3 4	
62737	Dichlorovos (DDVP)	09/89	e	c	0.5	1 2 3 4	
51338273	Diclofop methyl	11/20	ChemSet-2	c	50	4	[19]
115322	Dicofol [POM]	06/91	e		100	1 2	
84617	Dicyclohexyl phthalate {DCHP} (see Phthalates, ortho-Phthalates)	11/20	(see cross-ref)		100		7
102545	Dicyclopentaenyl iron {Ferrocene}	11/20	ChemSet-2		100		7
--	Diesel engine exhaust	09/90	e	c		1 3 4	[9]
9901	Diesel engine exhaust, particulate matter {Diesel PM}	09/90	e	c	0.1	1 3 4	[9]
9902	Diesel engine exhaust, total organic gas	09/90	e	c	10	1 3 4	[9]
#	Diesel fuel (marine)	06/91	e	c			[1]
111422	Diethanolamine	06/91	e	c	20	1 2 3 4	
579668	2,6-Diethylaniline	11/20	ChemSet-2		100		7
111400	Diethylenetriamine	11/20	ChemSet-2		100		6
117817	Di(2-ethylhexyl) phthalate {DEHP}		e	c	20	1 2 3 4 5	
84662	Diethyl phthalate (see Phthalates, ortho-Phthalates)	06/91	e		100		7
64675	Diethyl sulfate		e	c	100	1 2 3 4 5	
2238075	Diglycidyl ether	11/20	ChemSet-2		20		7
84753	Di-n-hexyl phthalate {DnHP} (see Phthalates, ortho-Phthalates)	11/20	(see cross-ref)		100	4	
84695	Di-isobutyl phthalate {DIBP} (see Phthalates, ortho-Phthalates)	11/20	(see cross-ref)		100		7
26761400	Di-isodecyl phthalate (see Phthalates, ortho-Phthalates)	11/20	(see cross-ref)		100	4 5	
68515491	Di-isodecyl phthalate, C9-11 branched esters, C10 rich (see Phthalates, ortho-Phthalates)	11/20	(see cross-ref)		100	4 5	
89167	Di-isodecyl phthalate mixture {Bis(8-methylnonyl) phthalate} (see Phthalates, ortho-Phthalates)	11/20	(see cross-ref)		100	4 5	
119394455	Di-isodecyl phthalate mixture {1,2-Benzenedicarboxylic acid, 4,4'-carbonylbis-, 1,1',2,2'-tetraisodecyl ester} (see Phthalates, ortho-Phthalates)	11/20	(see cross-ref)		100	4 5	
28553120	Di-isononyl phthalate {DINP} (see Phthalates, ortho-Phthalates)	11/20	(see cross-ref)	c	20	4	
68515480	Di-isononyl phthalate {DINP}, C8-10 branched esters, C9 rich (see Phthalates, ortho-Phthalates)	11/20	(see cross-ref)	c	20	4	
2973106	Diisopropyl sulfate	11/20	ChemSet-2	c	50	3 4	
60515	Dimethoate	11/20	ChemSet-2		100		7 [19]
828002	Dimethoxane	11/20	ChemSet-2		100		7 [19]
119904	3,3'-Dimethoxybenzidine [POM]		e	c	100	1 2 3 4 5	

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Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Effective Phase [Note 23]	Carcinogen [Note 4]	Applicable Degree of Accuracy (lb/yr) [Note 5]	Source List(s) [Note 6]	Other Note(s)
25962770	trans-2-[(Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)-vinyl]-1,3,4-oxadiazole	11/20	ChemSet-2	c	50	3 4	
612828	3,3'-Dimethylbenzidine dihydrochloride (see Benzidine-based dyes)	11/20	(see cross-ref)	c	0.0001	4	
91930	3,3'-Dimethoxybenzidine-4,4'-diisocyanate (see Isocyanates-diisocyanates)	11/20	(see cross-ref)		0.5		7
627930	Dimethyl Adipate	11/20	ChemSet-2		100		6
124403	Dimethylamine	11/20	ChemSet-2		100		7
60117	4-Dimethylaminoazobenzene [POM]		e	c	0.01	1 2 3 4 5	
140567	p-Dimethylaminoazobenediazole sodium sulfonate	11/20	ChemSet-2		100		7 [19]
121697	N,N-Dimethylaniline	06/91	e		200	1 2	
75605	Dimethylarsinic acid {Cacodylic acid} (see Arsenic compounds (inorganic))	11/20	(see cross-ref)	c	50	3	[19]
57976	7,12-Dimethylbenz[a]anthracene [Methyl-PAH, POM] (see PAH, Methyl-PAH)	09/90	(see cross ref)	c	0.0001	1 2 4	
119937	3,3'-Dimethylbenzidine {o-Tolidine} [POM]		e	c	10	1 2 3 4 5	
79447	Dimethyl carbamoyl chloride		e	c	100	1 2 3 4 5	
616386	Dimethyl carbonate	11/20	ChemSet-2		100		7
624920	Dimethyl disulfide	11/20	ChemSet-2		100		7
68122	Dimethyl formamide	09/90	e	c	100	1 2 3	
1119400	Dimethyl glutarate {glutaric acid dimethyl ester}	11/20	ChemSet-2		100		6
57147	1,1-Dimethylhydrazine		e	c	0.1	1 2 3 4 5	
868859	Dimethyl hydrogen phosphite	11/20	ChemSet-2		100		7
573988	1,2-Dimethylnaphthalene [Methyl-PAH, POM] (see PAH, Methyl-PAH)	11/20	(see cross-ref)		0.5		7
575439	1,6-Dimethylnaphthalene [Methyl-PAH, POM] (see PAH, Methyl-PAH)	11/20	(see cross-ref)		0.5		7
581420	2,6-Dimethylnaphthalene [Methyl-PAH, POM] (see PAH, Methyl-PAH)	11/20	(see cross-ref)		0.5		7
1456286	2,6-Dimethyl-N-nitrosomorpholine	11/20	ChemSet-2	c	50	4	
483874	1,7-Dimethylphenanthrene [Methyl-PAH, POM] (see PAH, Methyl-PAH)	11/20	(see cross-ref)		0.5		7
131113	Dimethyl phthalate {DMP} (see Phthalates, ortho-Phthalates)	06/91	e		50	1 2	
77781	Dimethyl sulfate		e	c	0.01	1 2 3 4 5	
120616	Dimethyl terephthalate {DMT}	11/20	ChemSet-2		100		7
99978	Dimethyl-p-toluidine	11/20	ChemSet-2	c	50	3 4	6
534521	4,6-Dinitro-o-cresol (and salts)	06/91	e		100	1 2	
105735715	3,7-Dinitrofluoranthene [PAH-Derivative/Related, POM]	11/20	ChemSet-2	c	0.5	3 4	
22506532	3,9-Dinitrofluoranthene [PAH-Derivative/Related, POM]	11/20	ChemSet-2	c	0.5	3 4	
51285	2,4-Dinitrophenol	06/91	e		100	1 2	
75321209	1,3-Dinitropyrene [PAH-Derivative/Related, POM]	11/20	ChemSet-2	c	0.05	3 4	
42397648	1,6-Dinitropyrene [PAH-Derivative/Related, POM]	06/91	Chemset-1	c	0.001	1 2 3 4	
42397659	1,8-Dinitropyrene [PAH-Derivative/Related, POM]	06/91	Chemset-1	c	0.05	1 2 3 4	
101257	Dinitrosopentamethylenetetramine (see N,N'-Dinitrosopentamethylenetetramine )	11/20	(see cross-ref)		100		7
25321146	Dinitrotoluenes (mixed isomers) including but not limited to:	06/91	e		100	4	7
121142	2,4-Dinitrotoluene	09/89	e	c	0.5	1 2 3 4	
1326416	2,4-Dinitrotoluene, sulfurized	11/20	ExistGrp	c	0.5	1 2 3 4	
606202	2,6-Dinitrotoluene	06/91	e	c	0.5	3 4	7
618859	3,5-Dinitrotoluene	11/20	ChemSet-2		100		7
123911	1,4-Dioxane		e	c	5	1 2 3 4 5	
	- Dioxins (Chlorinated dibenzodioxins) (see Polychlorinated dibenzo-p-dioxins) [POM]		e				
646060	1,3-Dioxolane	11/20	ChemSet-2		100		7
131180	Di-n-pentyl phthalate (see Phthalates, ortho-Phthalates)	11/20	(see cross-ref)		100		7



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122394	Diphenylamine	11/20	ChemSet-2		100	7	
630933	Diphenylhydantoin [POM]		e	c	100	1 2 4	
122667	1,2-Diphenylhydrazine {Hydrazobenzene} [POM]		e	c	100	1 2 4 5	
102089	Diphenyl thiourea	11/20	ChemSet-2		100	7	
136458	Di-n-propyl isocinchomeronate {MGK Repellent 326}	11/20	ChemSet-2	c	50	4	
85007	Diquat dibromide	11/20	ChemSet-2		100	7	[19]
2764729	Diquat dibromide mixture, usually as dibromide	11/20	ChemSet-2		100	7	[19]
138932	Disodium cyanodithioimidocarbonate	11/20	ChemSet-2		100	4	
97778	Disulfiram	11/20	ChemSet-2		100	7	
330541	Diuron	11/20	ChemSet-2	c	5	4	[19]
112550	1-Dodecanethiol	11/20	ChemSet-2		100	7	
115297	Endosulfan	11/20	ChemSet-2		10	7	[19]
72208	Endrin	11/20	ChemSet-2		50	4	[19]
1090	Environmental Tobacco Smoke		e	c	2	1 3 4	
106898	Epichlorohydrin		e	c	2	1 2 3 4 5	
67891752	Epoxidized olefins	11/20	ChemSet-2		100	6	
106887	1,2-Epoxybutane	06/91	e		100	1 2 3	
1091	Epoxy resins (monomers or oligomers) including but not limited to:	09/89	e		100	6	
1092	Epikote ®	11/20	ChemSet-1		100	6	
68038324	Epikote 1055	11/20	ChemSet-1		100	7	
1093	Epon ®	11/20	ChemSet-1		100	6	
25068386	Resin 828	11/20	ChemSet-1		100	7	
13194484	Ethoprop	11/20	ChemSet-2	c	1	4	[19]
141786	Ethyl acetate	11/20	ChemSet-2		100	6	
140885	Ethyl acrylate		e	c	200	1 2 3 4 5	
103695	N-Ethylaniline	11/20	ChemSet-2		100	7	
578541	o-Ethylaniline	11/20	ChemSet-2		100	7	
100414	Ethyl benzene	06/91	e	c	20	1 2 3	
	- Ethyl carbamate (see Urethane)		e	c	0.1	1 2 3 4 5	
75003	Ethyl chloride {Chloroethane}		e		200	1 2 4	
7085850	Ethyl cyanoacrylate	11/20	ChemSet-2		100	6	
	- Ethyl-4,4'-dichlorobenzilate (see Chlorobenzilate)		e				
759944	Ethyl dipropylthiocarbamate {EPTC}	11/20	ChemSet-2		50	4	[19]
74851	Ethylene	06/91	e		200	7	
107153	Ethylenediamine	11/20	ChemSet-2		100	7	[19]
106934	Ethylene dibromide {EDB, 1,2-Dibromoethane}		e	c	0.5	1 3 4 5 6	
107062	Ethylene dichloride {EDC, 1,2-Dichloroethane}		e	c	2	1 2 3 4 5	
107211	Ethylene glycol	06/91	e		200	1 2	
628966	Ethylene glycol dinitrate	11/20	ChemSet-2		100	7	
151564	Ethyleneimine {Aziridine}	06/91	e	c	50	1 2 3 4	
75218	Ethylene oxide		e	c	0.5	1 2 3 4 5 6	
420122	Ethylene sulfide	11/20	ChemSet-2		100	7	
96457	Ethylene thiourea		e	c	2	1 2 4 5	
103117	2-Ethylhexyl acrylate	11/20	ChemSet-2	c	50	3	

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	75081 Ethyl mercaptan	11/20	ChemSet-2		100	7	
	97632 Ethyl methacrylate	11/20	ChemSet-2		100	6	
	56382 Ethyl parathion (see Parathion)	11/20	(see cross-ref)	c	50	1 2 3 4	[19]
	637923 Ethyl-tert-butyl ether {ETBE}	11/20	ChemSet-2		100	4	
	22224926 Fenamiphos	11/20	ChemSet-2		10	7	[19]
	66441234 Fenoxaprop ethyl	11/20	ChemSet-2		100	4	[19]
	72490018 Fenoxycarb	11/20	ChemSet-2	c	50	4	[19]
	51630581 Fenvalerate	11/20	ChemSet-2		100	7	[19]
	12604589 Ferrovandium, dust	11/20	ChemSet-2		100	7	
	- Flame retardants (see also Brominated and Chlorinated Organic Compounds Used as Flame Retardants)	11/20	(see cross-ref)		100	7	
	69806504 Fluazifop butyl	11/20	ChemSet-2		100	4	[19]
	131341861 Fludioxonil	11/20	ChemSet-2		100	7	[19]
	486259 Fluorenone [PAH-Derivative/Related, POM]	11/20	ChemSet-2		50	7	
	1101 Fluorides and compounds including but not limited to:	09/89	e		100	2	
	7664393 Hydrogen fluoride		e		50	1 2	7
	1141 Modified Hydrogen fluoride {MHF}	11/20	ExistGrp		50		7
	15096523 Sodium aluminum fluoride	11/20	ChemSet-2		100		7
	7681494 Sodium fluoride	11/20	ChemSet-2		100		7
	1103 Fluorocarbons (brominated)		e		200	6	[10]
	1104 Fluorocarbons (chlorinated) including but not limited to:		e		200	1	6 [10]
	76131 Chlorinated fluorocarbon {CFC-113} {1,1,2-Trichloro-1,2,2-trifluoroethane}		e		200	1 2	6
	75456 Chlorodifluoromethane {Freon 22} {HCFC-22}	07/96	e		200	1	6 7
	102687650 trans-1-Chloro-3,3,3-trifluoropropene (t-HCFO-1233zd) {HCFO-1233zd(E)}	11/20	ChemSet-1		100		7
	75718 Dichlorodifluoromethane {Freon 12} {CFC-12}	11/06	e		200		7
	75434 Dichlorofluoromethane {Freon 21}	07/96	e		200	1	6 7
	1645836 trans-1,3,3,3-Tetrafluoropropylene {HFO-1234ze} {Genetron-1234ze}	11/20	ChemSet-1		100		7
	75694 Trichlorofluoromethane {Freon 11} {CFC-11}	07/96	e		200	1	6 7
	406906 Fluoroxene	11/20	ChemSet-2		100		7
	69409945 Fluvalinate	11/20	ChemSet-2		100	4	[19]
	50000 Formaldehyde		e	c	5	1 2 3 4 5 6	
	75127 Formamide	11/20	ChemSet-2		100		7
	64186 Formic Acid	11/20	ChemSet-2		100	6	7
	39148248 Fosetyl-al	11/20	ChemSet-2		100		7 [19]
	110009 Furan	07/96	e	c	5	3 4	
	98011 Furfural	11/20	ChemSet-2		100		7
	98000 Furfuryl alcohol	11/20	ChemSet-2	c	50	3 4	
	-- Fusarium, Fusarium moniliforme, and its derivatives	11/20	ChemSet-2	c	50	3 4	
	116355830 Fumonisin B1	11/20	ChemSet-2	c	50	3 4	
	116355841 Fumonisin B2	11/20	ChemSet-2	c	50	3 4	
	79748815 Fusarin C	11/20	ChemSet-2	c	50	3 4	
	1222055 Galaxolide	11/20	ChemSet-2		100		7
	1303000 Gallium arsenide (see Arsenic compounds (inorganic))	11/20	(see cross-ref)	c	0.01	3 4	[7]
	-- Gasoline engine exhaust including but not limited to:	09/89	e	c		3	[9]
	-- Gasoline engine exhaust (condensates & extracts)	06/91	e	c		3 4	[9]

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9910	Gasoline engine exhaust, particulate matter	09/90	e	c	100	3 4	[9]
9911	Gasoline engine exhaust, total organic gas	09/90	e	c	100	3 4	[9]
1110	Gasoline vapors		e	c	200	1 2 3 4	[11]
548629	Gentian Violet (Crystal Violet)	11/20	ChemSet-2	c	50	4	
7782652	Germanium tetrahydride	11/20	ChemSet-2		100		7
111308	Glutaraldehyde		e		0.1	1	6
56826	Glyceraldehyde (DL-Glyceraldehyde mixture)	11/20	ChemSet-2		100		7
453178	Glyceraldehyde, D+ stereoisomer	11/20	ChemSet-2		100		7
497096	Glyceraldehyde, L- stereoisomer	11/20	ChemSet-2		100		7
106912	Glycidyl methacrylate	11/20	ChemSet-2	c	50	3	
1115	Glycol ethers and their acetates, and related, including but not limited to:		e		100	1 2	6
111466	Diethylene glycol	09/90	e		100	1	6
112732	Diethylene glycol dibutyl ether (DEGBE)	11/20	ChemSet-1		100		7
111966	Diethylene glycol dimethyl ether	09/90	e		100	1 2	6
112345	Diethylene glycol monobutyl ether	09/90	e		100	1 2	6
124174	Diethylene glycol monobutyl ether acetate	11/20	ChemSet-1		100		7
111900	Diethylene glycol monoethyl ether	09/90	e		100	1 2	6
112152	Diethylene glycol monoethyl ether acetate	11/20	ChemSet-1		100		7
112594	Diethylene glycol monohexyl ether	11/20	ChemSet-1		100		7
111773	Diethylene glycol monomethyl ether	09/90	e		100	1 2	6
629389	Diethylene glycol monomethyl ether acetate	11/20	ChemSet-1		100		7
25265718	Dipropylene glycol	09/90	e		100	1	6
34590948	Dipropylene glycol monomethyl ether	09/90	e		100	1	6
111557	Ethylene glycol diacetate	11/20	ChemSet-1		100		7
112481	Ethylene glycol dibutyl ether	11/20	ChemSet-1		100		7
629141	Ethylene glycol diethyl ether	09/90	e		100	1 2	6
97905	Ethylene glycol dimethacrylate (EGDMA)	11/20	ChemSet-1		100		6 7
110714	Ethylene glycol dimethyl ether	09/90	e		100	1 2	6
542596	Ethylene glycol monoacetate	11/20	ChemSet-1		100		7
111762	Ethylene glycol monobutyl ether	09/90	e		200	1 2	6
112072	Ethylene glycol monobutyl ether acetate	11/20	ChemSet-1		100		7
110805	Ethylene glycol monoethyl ether	09/89	e		50	1 2 4	6
111159	Ethylene glycol monoethyl ether acetate	09/90	e		100	1 2 4	6
112254	Ethylene glycol monohexyl ether	11/20	ChemSet-1		100		7
109864	Ethylene glycol monomethyl ether	09/89	e		10	1 2 4	6
110496	Ethylene glycol monomethyl ether acetate	09/90	e		200	1 2 4	6
10020436	Ethylene glycol monoethyl ether	11/20	ChemSet-1		100		7
122996	Ethylene glycol monophenyl ether	11/20	ChemSet-1		100		7
2807309	Ethylene glycol monopropyl ether	09/90	e		100	1 2	6
57018527	Propylene glycol t-butyl ether	11/20	ChemSet-2	c	50	3	6
107982	Propylene glycol monomethyl ether	09/90	e		200	1	6
108656	Propylene glycol monomethyl ether acetate	09/90	e		100	1	6
112492	Triethylene glycol dimethyl ether	09/90	e		100	1 2	6
112505	Triethylene glycol monoethyl ether	11/20	ChemSet-1		100		7

**Appendix A-I  
Substances for Which Emissions Must Be Quantified**

Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Effective Phase [Note 23]	Carcinogen [Note 4]	Applicable Degree of Accuracy (lb/yr) [Note 5]	Source List(s) [Note 6]	Other Note(s)
112356	Triethylene glycol monomethyl ether	11/20	ChemSet-1		100	7	
107164	Glycolonitrile	11/20	ChemSet-2		100	7	
107222	Glyoxal	11/20	ChemSet-2		50	7	
1071836	Glyphosate	11/20	ChemSet-2	c	1	3 4	[19]
7440586	Hafnium and compounds	11/20	ChemSet-2		20	7	[7]
76448	Heptachlor	09/89	e	c	100	1 2 3 4	
142825	Heptane	11/20	ChemSet-2		100	6	
96048	2,3-Heptanedione	11/20	ChemSet-2		100	7	
1639094	1-Heptanethiol	11/20	ChemSet-2		100	7	
118741	Hexachlorobenzene		e	c	0.1	1 2 3 4 5	
59080409	2,2',4,4',5,5'-Hexabromobiphenyl (see Brominated and Chlorinated Organic Compounds Used as Flame Retardants)	11/20	(see cross-ref)		10	5	
67774327	Hexabromobiphenyl mixture including Firemaster FF-1 (see Brominated and Chlorinated Organic Compounds Used as Flame Retardants)	11/20	(see cross-ref)		10	5	
36355018	Hexabromobiphenyls (see Brominated and Chlorinated Organic Compounds Used as Flame Retardants)	11/20	(see cross-ref)		10	5	
25637994	Hexabromocyclododecane (HBCD) (see also Brominated and Chlorinated Organic Compounds used as Flame Retardants)	11/20	(see cross-ref)		100	7	
87683	Hexachlorobutadiene	06/91	e	c	0.1	1 2 4	
608731	Hexachlorocyclohexanes (mixed or technical grade) including but not limited to:		e	c	0.05	1 3 4 5	
319846	alpha-Hexachlorocyclohexane	07/96	e	c	0.1	1 3 4 5	7
319857	beta-Hexachlorocyclohexane	07/96	e	c	0.1	1 3 4 5	7
58899	Lindane (gamma-Hexachlorocyclohexane)	09/90	e	c	0.1	1 2 3 4	
77474	Hexachlorocyclopentadiene		e		2	1 2	
67721	Hexachloroethane	09/90	e	c	200	1 2 3 4	
70304	Hexachlorophene	11/20	ChemSet-2		100	7	
142836	2,4-Hexadienal	11/20	ChemSet-2	c	50	3	
684162	Hexafluoroacetone	11/20	ChemSet-2		100	4	
116154	Hexafluoropropylene	11/20	ChemSet-2		100	7	
85427	Hexahydrophthalic anhydride, all isomers	11/20	ChemSet-2		0.001	7	
13149003	Hexahydrophthalic anhydride, all isomers (alt. CAS, see CAS 85427)	11/20	(see cross-ref)		0.001	7	
14166213	Hexahydrophthalic anhydride, all isomers (alt. CAS, see CAS 85427)	11/20	(see cross-ref)		0.001	7	
100970	Hexamethylenetetramine	11/20	ChemSet-2		100	7	
680319	Hexamethylphosphoramide		e	c	100	1 2 3 4 5	
110543	Hexane (n-Hexane)	06/91	e		200	1 2 4	
3848246	2,3-Hexanedione	11/20	ChemSet-2		100	7	
110134	2,5-Hexanedione	11/20	ChemSet-2		100	4	
111319	n-Hexanethiol	11/20	ChemSet-2		100	7	
302012	Hydrazine		e	c	0.01	1 2 3 4 5	
7647010	Hydrochloric acid		e		20	1 2	
58935	Hydrochlorothiazide	11/20	ChemSet-2	c	50	3	
	- Hydrocyanic acid (see Cyanide compounds)		e				
61788327	Hydrogenated terphenyls, nonirradiated	11/20	ChemSet-2		100	7	
420042	Hydrogen cyanamide (Cyanamide)	11/20	ChemSet-2		100	7	[19]
7722841	Hydrogen peroxide (excluding 5% or less solutions)	11/20	ChemSet-2		100	7	

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Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Effective Phase [Note 23]	Carcinogen [Note 4]	Applicable Degree of Accuracy (lb/yr) [Note 5]	Source List(s) [Note 6]	Other Note(s)
7783064	Hydrogen sulfide		e		5	1 2	
123319	Hydroquinone	06/91	e		100	1 2	
1689823	4-Hydroxyazobenzene	11/20	ChemSet-2		100		7
35554440	Imazalil	11/20	ChemSet-2	c	50	4	[19]
	- Indeno[1,2,3-cd]pyrene [PAH, POM], (see PAH)		e	c	0.5	1 2 3 4 5	
7440746	Indium and compounds including but not limited to:	11/20	ChemSet-1		50		7 [7]
22398807	Indium phosphide	11/20	ChemSet-1	c	50	3 4	[7]
50926119	Indium tin oxide	11/20	ChemSet-1	c	50	3	[7]
7553562	Iodine	11/20	ChemSet-2		100		7
75478	Iodoform	11/20	ChemSet-2		100		7
36734197	Iprodione	11/20	ChemSet-2	c	5	4	[19]
1309371	Iron oxide	11/20	ChemSet-2		100		7
13463406	Iron pentacarbonyl	07/96	e		5		7
106638	Isobutyl acrylate	11/20	ChemSet-2		100		7
78831	Isobutyl alcohol	11/20	ChemSet-2		100		7
97869	Isobutyl Methacrylate	11/20	ChemSet-2		100		6
542563	Isobutyl nitrite	11/20	ChemSet-2	c	50	3 4	
115117	Isobutylene	11/20	ChemSet-2		100		7
78820	Isobutyronitrile	11/20	ChemSet-2		100		7
1125	Isocyanates including but not limited to:		e		0.05		6
1218	Amino Isocyanates including but not limited to:	11/20	ChemSet-1		0.05		6 7
1223	1,6-Hexamethylene amino isocyanate {1,6-HAI}	11/20	ChemSet-1		0.05		7
1224	4,4-Methylenebisphenyl amino isocyanate	11/20	ChemSet-1		0.1		7
99626876	2,4-Toluene amino isocyanate {3-Isocyanato-4-methylbenzenamine} {2,4-TAI}	11/20	ChemSet-1		0.1		6 7
22683712	2,6-Toluene amino isocyanate {3-Isocyanato-2-methylbenzenamine} {2,6-TAI}	11/20	ChemSet-1		0.1		6 7
99626887	4,2-Toluene amino isocyanate {5-Isocyanato-2-methylbenzenamine} {4-TIA} {4,2-TAI}	11/20	ChemSet-1		0.1		6 7
1219	Diisocyanates including but not limited to:	11/20	ChemSet-1		0.05		
91930	3,3'-Dimethoxybenzidine-4,4'-diisocyanate	11/20	ChemSet-1		0.5		7
822060	1,6-Hexamethylene diisocyanate {HDI}	06/91	e		0.05	1 2	6
4098719	Isophorone diisocyanate {IPDI}	11/20	ChemSet-1		0.5		6 7
1225	Isophorone diisocyanate isomers	11/20	ChemSet-1		0.5		6 7
101688	Methylene diphenyl diisocyanate {MDI} [POM]	06/91	e		0.1	1 2	6
3173726	1,5-Naphthalene diisocyanate	11/20	ChemSet-1		0.5		7
1220	Mono isocyanates including but not limited to:	11/20	ChemSet-1		1		
109900	Ethyl isocyanate	11/20	ChemSet-1		1		6 7
624839	Methyl isocyanate {MIC}		e		1	1 2 4	
110781	Propyl isocyanate	11/20	ChemSet-1		1		6 7
103719	Phenyl isocyanate	11/20	ChemSet-1		1		6 7
1221	Polymeric (Oligo) HDI including but not limited to:	11/20	ChemSet-1		0.5		
108190	Biuret	11/20	ChemSet-1		0.5		6 7
1226	Diisocyanurate	11/20	ChemSet-1		0.5		6 7
1227	HDI Prepolymer	11/20	ChemSet-1		0.5		6 7
1228	Isocyanurate	11/20	ChemSet-1		0.5		6 7
23501817	Uretidione (HDI) {Uretidone}	11/20	ChemSet-1		0.5		6 7

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Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Effective Phase [Note 23]	Carcinogen [Note 4]	Applicable Degree of Accuracy (lb/yr) [Note 5]	Source List(s) [Note 6]	Other Note(s)
26471625	Toluene diisocyanates including but not limited to:	06/91	e	c	0.1	1 2 3 4 5	
-	Toluene-2,4-diisocyanate (see Toluene diisocyanates)		e				
-	Toluene-2,6-diisocyanate (see Toluene diisocyanates)		e				
78591	Isophorone	06/91	e		200	1 2	
78795	Isoprene, except from vegetative emission sources	07/96	e	c	200	3 4	
67630	Isopropyl alcohol	06/91	e		200	1	
80057	4,4'-Isopropylidenediphenol [POM] {BPA} (see Bisphenol A)	06/91	e		100	1 2	6
4016142	Isopropyl glycidyl ether	11/20	ChemSet-2		100		6
463514	Ketene	11/20	ChemSet-2		100		7
143390890	Kresoxim-methyl	11/20	ChemSet-2	c	50	4	[19]
7439910	Lanthanum and compounds	11/20	ChemSet-1		100		7 [7]
105748	Lauroyl peroxide	11/20	ChemSet-2		100		7
7439921	Lead		e	c	0.5	1 3 4	6
1128	Lead compounds (inorganic) including but not limited to:		e	c	0.5	1 3 4	[7]
301042	Lead acetate		e	c	1	1 2 4 5	[7] [12]
-	Lead chromate (see Chromium, hexalent)		e			4	
7446277	Lead phosphate		e	c	2	1 4 5	[7]
1335326	Lead subacetate	09/90	e	c	2	1 2 4	[7] [12]
1129	Lead compounds (other than inorganic)	06/91	e		5	1 2 4	[7]
78002	Tetraethyllead	11/20	ExistGrp		50	4	7 [7]
75741	Tetramethyllead	11/20	ExistGrp		50	4	7 [7]
1222	Leather dust	11/20	ChemSet-1	c	50	3 4	
330552	Linuron	11/20	ChemSet-2		5	4	[19]
1309484	Magnesium oxide	11/20	ChemSet-2		100		7 [19]
121755	Malathion	11/20	ChemSet-2	c	10	3 4	[19]
108316	Maleic anhydride		e		0.5	1 2	
542789	Malonaldehyde	11/20	ChemSet-2		100		7
109773	Malononitrile	11/20	ChemSet-2		100		7
7439965	Manganese		e		0.1	1 2	
*	Manganese compounds including but not limited to:	09/89	e		0.1	1 2	[7]
12079651	Manganese cyclopentadienyl tricarbonyl	11/20	ChemSet-2		50		7 [7]
12108133	2-Methylcyclopentadienyl manganese tricarbonyl	11/20	ChemSet-2		100		7 [7]
108781	Melamine	11/20	ChemSet-2	c	50	3	7
77094112	MelQ (see 2-Amino-3,4-dimethylimidazo[4,5-f]quinoline)	11/20	(see cross-ref)	c	50	3 4	
77500040	MelQx (see 2-Amino-3,8-dimethylimidazo[4,5-f]quinoxaline)	11/20	(see cross-ref)	c	50	3 4	
149304	2-Mercaptobenzothiazole	11/20	ChemSet-2	c	50	3 4	
7439976	Mercury		e		1	1 2 4	6
*	Mercury compounds including but not limited to:	09/89	e		1	1 2 4	[7]
7487947	Mercuric chloride		e		1	2 4	[7]
593748	Methyl mercury {Dimethylmercury}		e		1	2 4	[7]
137417	Metam potassium	11/20	ChemSet-2	c	50	4	[19]
137428	Metam sodium	11/20	ChemSet-2	c	5	4	[19]
79414	Methacrylic acid	11/20	ChemSet-2		100		6 7
10265926	Methamidophos	11/20	ChemSet-2		100		7 [19]

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Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Effective Phase [Note 23]	Carcinogen [Note 4]	Applicable Degree of Accuracy (lb/yr) [Note 5]	Source List(s) [Note 6]	Other Note(s)
67561	Methanol		e		200	1 2 4	
950378	Methidathion	11/20	ChemSet-2		1		7 [19]
16752775	Methomyl	11/20	ChemSet-2		5		7 [19]
72435	Methoxychlor [POM]	06/91	e		100	1 2	
111966	2-Methoxyethyl ether (see Glycol ethers: Diethylene glycol dimethyl ether)	11/20	(see cross-ref)		100	1 2	6
150765	4-Methoxyphenol {1-Hydroxy-4-methoxybenzene} {Hydroquinone monomethyl ether}	11/20	ChemSet-2		100		6
96333	Methyl acrylate	06/91	e	c	50	3	7
126987	Methylacrylonitrile	11/20	ChemSet-2		100		7
74895	Methylamine	11/20	ChemSet-2		100		7
26914181	Methylantracene [Methyl-PAH, POM] (see PAH, Methyl-PAH)	11/20	(see cross-ref)		0.5		7
613127	2-Methylantracene [Methyl-PAH, POM] (see PAH, Methyl-PAH)	11/20	(see cross-ref)		0.5		7
779022	9-Methylantracene [Methyl-PAH, POM] (see PAH, Methyl-PAH)	11/20	(see cross-ref)		0.5		7
124583	Methylarsonic acid (see Arsenic compounds (other than inorganic): Methylarsonic acid)	11/20	(see cross-ref)	c	0.1	3	
75558	2-Methylaziridine {1,2-Propyleneimine}		e	c	100	1 2 3 4	
2422799	12-Methylbenz(a)anthracene [Methyl-PAH, POM] (see PAH, Methyl-PAH)	11/20	(see cross-ref)		0.5		7
65357699	Methylbenzopyrene [Methyl-PAH, POM] (see PAH, Methyl-PAH)	11/20	(see cross-ref)		0.5		7
74839	Methyl bromide {Bromomethane}		e		20	1 2 4 6	
1634044	Methyl tert-butyl ether {MTBE}	06/91	e	c	200	1 2	
591786	Methyl-n-butyl ketone	11/20	ChemSet-2		100	4	
598550	Methyl carbamate	11/20	ChemSet-2	c	50	4	[19]
74873	Methyl chloride {Chloromethane}	06/91	e		20	1 2 4	
71556	Methyl chloroform {1,1,1-Trichloroethane}		e		200	1 2 6	
56495	3-Methylcholanthrene [Methyl-PAH, POM] (see PAH, Methyl PAH)	09/90	(see cross ref)	c	0.001	1 2 4	
41637905	Methylchrysene [Methyl-PAH, POM] (see PAH, Methyl-PAH)	11/20	(see cross-ref)		5		7
3351313	3-Methylchrysene [Methyl-PAH, POM] (see PAH, Methyl-PAH)	11/20	(see cross-ref)		5		7
3697243	5-Methylchrysene [Methyl-PAH, POM] (see PAH, Methyl PAH)		(see cross ref)	c	0.05	1 2 3 4 5	
1705857	6-Methylchrysene [Methyl-PAH, POM] (see PAH, Methyl-PAH)	11/20	(see cross-ref)		5		7
137053	Methyl cyanoacrylate	11/20	ChemSet-2		100		7
8022002	Methyl demeton	11/20	ChemSet-2		20		7
99809	N-Methyl-N,4-dinitrosoaniline	11/20	ChemSet-2		100		7
101144	4,4'-Methylene bis(2-chloroaniline) {MOCA} [POM]		e	c	0.1	1 2 3 4 5	
5124301	Methylene bis(4-cyclohexylisocyanate)	11/20	ChemSet-2		100		7
101688	4,4'-Methylene bisphenyl diisocyanate {4,4'-diphenylmethane diisocyanate} {4,4'-MDI} (see Isocyanates, Diisocyanates: Methylene diphenyl diisocyanate)	11/20	e		0.1	1 2 6	
75092	Methylene chloride {Dichloromethane}		e	c	50	1 2 3 4 5 6	
101779	4,4'-Methylenedianiline {MDA}		e	c	0.1	1 2 3 4 5 6	
13552448	4,4'-Methylenedianiline dihydrochloride	11/20	ExistGrp	c	0.1	4 5	
78933	Methyl ethyl ketone {2-Butanone}	06/91	e		200	1 2	
1338234	Methyl ethyl ketone peroxide	11/20	ChemSet-2		0.5		7
25889605	1-Methylfluoranthene [Methyl-PAH, POM] (see PAH, Methyl-PAH)	11/20	(see cross-ref)		0.5		7
1706010	3-Methylfluoranthene [Methyl-PAH, POM] (see PAH, Methyl-PAH)	11/20	(see cross-ref)		0.5		7
421205	Methyl fluorosulfonate	11/20	ChemSet-2		100		7
1134	Methylhydrazine and its salts	11/20	ExistGrp	c	50	4	
60344	Methylhydrazine	06/91	e	c	50	1 2 4	

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<b>Emittent ID</b> [Note 1]	<b>Substance Name</b> [Note 2]	<b>Add Date</b> [Note 3]	<b>Effective Phase</b> [Note 23]	<b>Carcinogen</b> [Note 4]	<b>Applicable Degree of Accuracy (lb/yr)</b> [Note 5]	<b>Source List(s)</b> [Note 6]	<b>Other Note(s)</b>
302158	Methylhydrazine sulfate	11/20	ExistGrp	c	50	4	
5118343	Methylhydrazine sulfate (alt. CAS 5118343, see 302158)	11/20	ExistGrp	c	50	4	
693981	2-Methylimidazole	11/20	ChemSet-1	c	0.5	3 4	
822366	4-Methylimidazole	11/20	ChemSet-1	c	0.5	3 4	
74884	Methyl iodide {Iodomethane}		e	c	100	1 2 4 5	[19]
108101	Methyl isobutyl ketone {Hexone} {MIBK}	06/91	e	c	20	1 2 3 4	
563804	Methyl isopropyl ketone	11/20	ChemSet-2		100		7
75865	2-Methylacetonitrile {Acetone cyanohydrin}	07/96	e		50		7
80626	Methyl methacrylate		e		200	1 2 6	
1321944	Methylnaphthalene (mixed) [PAH-Derivative/Related, POM]	11/20	ChemSet-2		100		7 [19]
90120	1-Methylnaphthalene [Methyl-PAH, POM] (see PAH, Methyl-PAH)	11/20	(see cross-ref)		0.5		7 [19]
91576	2-Methylnaphthalene [Methyl-PAH, POM] (see PAH, Methyl-PAH)		e	c	0.5	1	
298000	Methyl parathion	11/20	ChemSet-2		10		7 [19]
832699	1-Methylphenanthrene [Methyl-PAH, POM] (see PAH, Methyl-PAH)	11/20	(see cross-ref)		0.5		7
2531842	2-Methylphenanthrene [Methyl-PAH, POM] (see PAH, Methyl-PAH)	11/20	(see cross-ref)		0.5		7
832713	3-Methylphenanthrene [Methyl-PAH, POM] (see PAH, Methyl-PAH)	11/20	(see cross-ref)		0.5		7
883205	9-Methylphenanthrene [Methyl-PAH, POM] (see PAH, Methyl-PAH)	11/20	(see cross-ref)		0.5		7
98851	Methyl phenyl carbinol	11/20	ChemSet-2		100		7
2381217	1-Methylpyrene [Methyl-PAH, POM] (see PAH, Methyl-PAH)	11/20	(see cross-ref)		0.5		7
3353126	4-Methylpyrene [Methyl-PAH, POM] (see PAH, Methyl-PAH)	11/20	(see cross-ref)		0.5		7
109068	2-Methylpyridine	07/96	e		100		7
872504	N-methyl-2-pyrrolidone {N-Methylpyrrolidone} {NMP}	11/20	ChemSet-1		50	4 6	
98839	alpha-Methylstyrene (see Styrene: Methylstyrene)	11/20	(see cross-ref)	c	10	3 4	
333277	Methyl triflate	11/20	ChemSet-2		100		7
12001262	Mica	11/20	ChemSet-2		100		7
90948	Michler's ketone [POM]		e	c	0.1	1 2 3 4 5	
1136	Mineral fibers (fine mineral fibers which are man-made, and are airborne particles of a respirable size greater than 5 microns in length, less than or equal to 3.5 microns in diameter, with a length to diameter ratio of 3:1) including but not limited to	06/91	e	c	100	1 2	7
1056	Ceramic fibers	09/89	e	c	100	1 2 3 4	
1111	Glasswool fibers	09/89	e	c	100	1 2 4	
1168	Rockwool	09/89	e	c	100	1 2	
1181	Slagwool	09/89	e	c	100	1 2	
1135	Mineral fibers (other than man-made) including but not limited to:		e		100	2	7
1332214	Asbestos		e	c	0.0001	1 2 3 4 5	
77536664	Actinolite	11/20	ChemSet-1	c	100	1 3	
12172735	Amosite	11/20	ChemSet-1	c	100	1 3	
77536675	Anthophyllite	11/20	ChemSet-1	c	100	1 3	
12001295	Chrysotile	11/20	ChemSet-1	c	100	1 3	
12001284	Crocidolite	11/20	ChemSet-1	c	100	1 3	
77536686	Tremolite	11/20	ChemSet-1	c	100	1 3	
12510428	Erionite		Chemset-1	c	100	2 3 4	[21]
66733219	Erionite (alt. CAS, see CAS 12510428)	11/20	Chemset-1	c	50	2 3 4	[21]
1106	Fluoro-edenite fibrous amphibole	11/20	ChemSet-1	c	100	3	
1190	Talc containing asbestiform fibers		e	c	100	2 3 4	



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Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Effective Phase [Note 23]	Carcinogen [Note 4]	Applicable Degree of Accuracy (lb/yr) [Note 5]	Source List(s) [Note 6]	Other Note(s)
1313275	Molybdenum trioxide	06/91	e	c	50	1 3	
96242	3-Monochloro-1,2-propanediol	11/20	ChemSet-1	c	1	3 4	
100618	Monomethyl aniline (N-Methylaniline)	11/20	ChemSet-2		100		7
124583	Monomethylarsonic acid (see Arsenic compounds (other than inorganic): Methylarsonic acid)	11/20	(see cross-ref)	c	0.1	3	
110918	Morpholine	11/20	ChemSet-2		100		7
3795888	5-(Morpholinomethyl)-3-[(5-nitrofurfurylidene)-amino]-2-oxazolidinone	11/20	ChemSet-2	c	0.5	3 4	
88671890	Myclobutanil	11/20	ChemSet-2		100	4	[19]
123353	beta-Myrcene	11/20	ChemSet-2	c	50	3 4	
142596	Nabam	11/20	ChemSet-2		100	4	[19]
25134218	Nadic methyl anhydride	11/20	ChemSet-2		100		6
8030306	Naphtha {coal tar}	11/20	ChemSet-2		100		7
66773	1-Naphthaldehyde [PAH-Derivative/Related, POM]	11/20	ChemSet-2		100		7
	- Naphthalene [PAH, POM], (see PAH)		e	c	0.1	1 2 3 4	
2243621	1,5-Naphthalenediamine [PAH-Derivative/Related, POM]	11/20	ChemSet-2		100		7
3173726	1,5-Naphthalene diisocyanate (see Isocyanates: diisocyanates)	11/20	(see cross-ref)		0.5		7
85472	alpha-Naphthalene sulfonic acid	11/20	ChemSet-2		100		7
120183	beta-Naphthalene sulfonic acid	11/20	ChemSet-2		100		7
135193	beta-Naphthol	11/20	ChemSet-2		100		7
86884	1-Naphthylthiourea {ANTU} {1-(1-Naphthyl)-2-thiourea}	11/20	ChemSet-2		100		7 [19]
60391926	N-Carboxymethyl-N-nitrosourea	11/20	ChemSet-2	c	50	4	
7440020	Nickel		e	c	0.1	1 2 3 4 5	
	* Nickel compounds including but not limited to:		e	c	1	1 2 3 4 5	[7]
373024	Nickel acetate	06/91	e	c	0.1	1 2 4 5	[7]
3333673	Nickel carbonate	06/91	e	c	0.1	1 2 4 5	[7]
13463393	Nickel carbonyl		e	c	0.1	1 2 4 5	[7]
7718549	Nickel chloride	11/20	ExistGrp	c	100	1 2 4 5	[7]
12054487	Nickel hydroxide	06/91	e	c	0.1	1 2 4 5	[7]
13138459	Nickel nitrate {Nickel (II) nitrate}	11/20	ExistGrp	c	100	1 2 4 5	[7]
1271289	Nickelocene	06/91	e	c	0.1	1 2 4 5	[7]
1313991	Nickel oxide	06/91	e	c	0.1	1 2 4 5	[7]
12035722	Nickel subsulfide		e	c	0.1	1 2 4 5	[7]
7786814	Nickel sulfate	11/20	ExistGrp	c	100	1 2 4 5	[7]
	1146 Nickel refinery dust from the pyrometallurgical process	09/89	e	c	0.1	4	
1929824	Nitrapyrin	11/20	ChemSet-2	c	50	4	[19]
7697372	Nitric acid	06/91	e		50	1	
139139	Nitrilotriacetic acid		e	c	100	1 3 4 5	
602879	5-Nitroacenaphthene [PAH-Derivative/Related, POM]	11/06	Chemset-1	c	2	1 2 3 4	
99092	mono-Nitroaniline	11/20	ChemSet-2		100		7
88744	o-Nitroaniline	11/20	ChemSet-2		100		7
100016	p-Nitroaniline	11/20	ChemSet-2		100		7
91236	o-Nitroanisole {2-Nitroanisole}	11/20	ChemSet-2	c	50	3	
100174	p-Nitroanisole	11/20	ChemSet-1	c	50	3 4	7
3586694	2-Nitroanthracene [PAH-Derivative/Related, POM]	11/20	ChemSet-2		0.5		7
20268513	7-Nitrobenz[a]anthracene [PAH-Derivative/Related, POM]	11/20	ChemSet-2		0.5		7

**Appendix A-I  
Substances for Which Emissions Must Be Quantified**

Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Effective Phase [Note 23]	Carcinogen [Note 4]	Applicable Degree of Accuracy (lb/yr) [Note 5]	Source List(s) [Note 6]	Other Note(s)
17117349	3-Nitrobenzanthrone [PAH-Derivative/Related, POM]	11/20	ChemSet-2	c	0.0001	3	
98953	Nitrobenzene		e	c	0.5	1 2 3 4	
63041907	6-Nitrobenzo[a]pyrene [PAH-Derivative/Related, POM]	11/20	ChemSet-2		0.5		7
92933	4-Nitrobiphenyl [POM]	09/89	e	c	100	1 2 4	
121733	3-Nitrochlorobenzene (see Chloronitrobenzenes: m-Chloronitrobenzene)	11/20	(see cross-ref)		50		7
100005	4-Nitrochlorobenzene (see Chloronitrobenzenes: 1-Chloro-4-nitrobenzene)	11/20	(see cross-ref)	c	50	3 4	
7496028	6-Nitrochrysene [PAH-Derivative/Related, POM]	06/91	Chemset-1	c	0.001	1 2 3 4	
892217	3-Nitrofluoranthene [PAH-Derivative/Related, POM]	11/20	ChemSet-2		0.5		7
607578	2-Nitrofluorene [PAH-Derivative/Related, POM]	06/91	Chemset-1	c	5	1 2 3 4	
126852	Nitrogen mustard N-oxide		ChemSet-2	c	0.05	3 4	
302705	Nitrogen mustard N-oxide Hydrochloride	11/20	e	c	0.05	4	
75525	Nitromethane	11/20	ChemSet-2	c	50	3 4 5	
86577	1-Nitronaphthalene {Nitrol} [PAH-Derivative/Related, POM]	11/20	ChemSet-2		0.5		7
581895	2-Nitronaphthalene [PAH-Derivative/Related, POM]	11/20	ChemSet-2		0.5		7
20589633	3-Nitroperylene [PAH-Derivative/Related, POM]	11/20	ChemSet-2		0.5		7
17024190	3-Nitrophenanthrene [PAH-Derivative/Related, POM]	11/20	ChemSet-2		0.5		7
954461	9-Nitrophenanthrene [PAH-Derivative/Related, POM]	11/20	ChemSet-2		0.5		7
100027	4-Nitrophenol	06/91	e		100	1 2	
99569	4-Nitro-o-Phenylenediamine (see 1,2-Diamino-4-nitrobenzene)	11/20	(see cross-ref)		5		7
79469	2-Nitropropane		e	c	0.01	1 2 3 4 5	
5522430	1-Nitropyrene [PAH-Derivative/Related, POM]	06/91	Chemset-1	c	0.5	1 2 3 4	
789071	2-Nitropyrene [PAH-Derivative/Related, POM]	11/20	ChemSet-2		0.5		7
57835924	4-Nitropyrene [PAH-Derivative/Related, POM]	11/06	Chemset-1	c	1	1 2 3 4	
105555	N,N'-Diethylthiourea	11/20	ChemSet-2		100		7
127195	N,N-Dimethylacetamide	11/20	ChemSet-2	c	50	3 4	
101257	N,N'-Dinitrosopentamethylenetetramine {Dinitrosopentamethylenetetramine}	11/20	ChemSet-2		100		7
86306	N-Nitrosodiphenylamine [POM]	11/06	e	c	10	1 2 4	
156105	p-Nitrosodiphenylamine [POM]		e	c	5	1 2 4 5	
932832	N-Nitrosohexamethyleneimine	11/20	ChemSet-2	c	50	4	
684935	N-Nitroso-N-methylurea		e	c	100	1 2 3 4 5	
59892	N-Nitrosomorpholine		e	c	0.01	1 2 3 4 5	
100754	N-Nitrosopiperidine		e	c	1	3 4 5	
930552	N-Nitrosopyrrolidine		e	c	0.05	3 4 5	
--	Nitrotoluenes including but not limited to	11/20	ChemSet-2		100		7
88722	2-Nitrotoluene {o-Nitrotoluene}	11/20	ChemSet-1	c	0.5	3	
118967	2,4,6-Trinitrotoluene	11/20	ChemSet-1	c	0.5	4	
99081	3-Nitrotoluene {m-Nitrotoluene}	11/20	ChemSet-2		100		7
99990	4-Nitrotoluene {p-Nitrotoluene}	11/20	ChemSet-2		100		7
25321146	Dinitrotoluenes (mixed isomers) including but not limited to:	11/20	ChemSet-1		0.5		7
121142	2,4-Dinitrotoluene		e	c	0.5	1 2 3 4	
1326416	2,4-Dinitrotoluene, sulfurized	11/20	ExistGrp	c	0.5	1 2 3 4	
606202	2,6-Dinitrotoluene	06/91	e	c	0.5	3 4	
618859	3,5-Dinitrotoluene	11/20	ChemSet-1		100		7

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99558	5-Nitro-o-toluidine	11/20	ChemSet-2		100	7	
83410	Nitroxylenes	11/20	ChemSet-2		100	7	
25154523	Nonylphenol	11/20	ChemSet-2		100	7	[19]
	-- Nonylphenol Ethoxylates	11/20	-		100	7	
27986363	2-(Nonylphenoxy)ethanol	11/20	ChemSet-2		100	7	
20427843	2-[2-(4-Nonylphenoxy)ethoxy]ethanol	11/20	ChemSet-2		100	7	
27176938	2-[2-(Nonylphenoxy)ethoxy]ethanol	11/20	ChemSet-2		100	7	
	-- Novolac resins	11/20	ChemSet-2		100	6	
111886	1-Octanethiol	11/20	ChemSet-2		100	7	
27193288	Octylphenol	11/20	ChemSet-2		100	7	
140669	4-t-Octylphenol	11/20	ChemSet-2		100	7	
	* Oleum (see Sulfuric acid and oleum)		e				
	-- Organophosphate Flame Retardants (OPFRs) including:	11/20	-		100	7	[20]
225789388	Aluminum diethyl phosphinate	11/20	ChemSet-2		100	7	[20]
5945335	Bisphenol A bis(diphenyl phosphate) {BADP}	11/20	ChemSet-2		100	7	[20]
756796	Dimethyl methylphosphonate {DMMP}	11/20	ChemSet-1		100	7	[20]
57583547	Resorcinol bis(diphenylphosphate) {RDP}	11/20	ChemSet-2		100	7	[20]
126738	Tri-n-butyl phosphate {TBP} (see Phosphorus compounds: Tributyl phosphate)	11/20	e		100	2	[20]
1330785	Tricresyl phosphate {TCP}	11/20	ChemSet-1		100	7	[20]
115866	Triphenyl phosphate {POM} {TPP}	11/20	e		100	1 2	[20]
115968	Tris(2-chloroethyl) phosphate {TCEP}	11/20	ChemSet-1	c	50	4	
13674845	Tris(1-chloro-2-propyl)phosphate {TCPP}	11/20	ChemSet-1		100	7	[21]
1689320	Tris(1-chloro-2-propyl)phosphate {TCPP} (alt. CAS No. 1, see CAS 13674845)	11/20	(see cross-ref)		100	7	[21]
98112324	Tris(1-chloro-2-propyl)phosphate {TCPP} (alt. CAS No. 2, see CAS 13674845)	11/20	(see cross-ref)		100	7	[21]
13674878	Tris(1,3-dichloro-2-propyl) phosphate {TDCP} {TDCPP}	11/20	ChemSet-1	c	10	4	
19044883	Oryzalin	11/20	ChemSet-2	c	5	4	[19]
19666309	Oxadiazon	11/20	ChemSet-2	c	50	4	[19]
301122	Oxydemeton methyl	11/20	ChemSet-2		100	4	[19]
42874033	Oxyfluorfen	11/20	ChemSet-2		100	7	[19]
7783417	Oxygen difluoride	11/20	ChemSet-2		0.1	7	
2439012	Oxythioquinox (Chinomethionat)	11/20	ChemSet-2	c	50	4	[19]
	-- PAHs (Polycyclic aromatic hydrocarbons) and Methyl PAHs, including but not limited to:		e		50	1 2	[13]
1151	PAHs, total, w/o individ. components reported [PAH, POM]		e		50	1 2	
1150	PAHs, total, with individ. components also reported [PAH, POM]		e		50	1 2	
83329	Acenaphthene [PAH, POM]	07/96	e		5	1	
208968	Acenaphthylene {Cyclopenta[cd]naphthalene} [PAH, POM]	07/96	e		5	1	
191264	Anthanthrene {Dibenzo[cd,jk]pyrene} [PAH, POM]	11/20	ChemSet-2		0.5	7	
120127	Anthracene [PAH, POM]	06/91	e		50	1 2	7
202335	Benz[j]aceanthrylene [PAH, POM]	11/20	ChemSet-2	c	0.5	3	
56553	Benz[a]anthracene [PAH, POM]		e	c	0.5	1 2 3 4 5	
214175	Benzo[b]chrysene [PAH, POM]	11/20	ChemSet-2		0.5	7	
203338	Benzo[a]fluoranthene [PAH, POM]	11/20	ChemSet-2		0.5	7	
205992	Benzo[b]fluoranthene [PAH, POM]		e	c	0.5	1 2 3 4 5	
203123	Benzo[g,h,i]fluoranthene [PAH, POM]	11/20	ChemSet-2		0.5	7	

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205823	Benzo[j]fluoranthene [PAH, POM]		e	c	0.5	1 2 3 4 5	
207089	Benzo[k]fluoranthene [PAH, POM]		e	c	0.5	1 2 3 4 5	
205129	Benzo[c]fluorene [PAH, POM]	11/20	ChemSet-2		0.5		7
191242	Benzo[g,h,i]perylene [PAH, POM]	07/96	e		0.5	1	
195197	Benzo[c]phenanthrene [PAH, POM]	11/20	ChemSet-2	c	0.5	3	
50328	Benzo[a]pyrene [PAH, POM]		e	c	0.05	1 2 3 4 5	
192972	Benzo[e]pyrene [PAH, POM]	07/96	e		0.5	1	
218019	Chrysene [PAH, POM]	09/90	e	c	5	1 2 3 4	
191071	Coronene [PAH, POM]	11/20	ChemSet-2		0.5		7
27208373	Cyclopenta[cd]pyrene [PAH]	11/20	Chemset-2	c	50	3 4	
215587	Dibenz[a,c]anthracene [PAH, POM]	11/20	ChemSet-2	c	0.1	4	
53703	Dibenz[a,h]anthracene [PAH, POM]		e	c	0.1	1 2 3 4 5	
224419	Dibenz[a,j]anthracene [PAH, POM]	11/20	ChemSet-2	c	0.1	4	
192654	Dibenzo[a,e]pyrene [PAH, POM]		e	c	0.05	1 2 4 5	
189640	Dibenzo[a,h]pyrene [PAH, POM]		Chemset-1	c	0.001	1 2 3 4 5	
189559	Dibenzo[a,i]pyrene [PAH, POM]		Chemset-1	c	0.001	1 2 3 4 5	
191300	Dibenzo[a,l]pyrene [PAH, POM]		Chemset-1	c	0.001	1 2 3 4 5	
192518	Dibenzo[e,l]pyrene [PAH, POM]	11/20	ChemSet-2		0.5		7
206440	Fluoranthene [PAH, POM]	07/96	e	c	0.5	1	
86737	Fluorene [PAH, POM]	07/96	e	c	0.5	1	
193395	Indeno[1,2,3-cd]pyrene [PAH, POM]		e	c	0.5	1 2 3 4 5	
91203	Naphthalene [PAH, POM]		e	c	0.1	1 2 3 4	
198550	Perylene [PAH, POM]	07/96	e	c	0.5	1	
85018	Phenanthrene [PAH, POM]	07/96	e	c	0.5	1	
129000	Pyrene [PAH, POM]	07/96	e	c	0.5	1	
--	And Methyl PAHs including:		-				
57976	7,12-Dimethylbenz[a]anthracene [Methyl-PAH, POM]	09/90	Chemset-1	c	0.0001	1 2 4	
573988	1,2-Dimethylnaphthalene [Methyl-PAH, POM]	11/20	ChemSet-2		0.5		7
575439	1,6-Dimethylnaphthalene [Methyl-PAH, POM]	11/20	ChemSet-2		0.5		7
581420	2,6-Dimethylnaphthalene [Methyl-PAH, POM]	11/20	ChemSet-2		0.5		7
483874	1,7-Dimethylphenanthrene [Methyl-PAH, POM]	11/20	ChemSet-2		0.5		7
26914181	Methylanthracene [Methyl-PAH, POM]	11/20	ChemSet-2		0.5		7
613127	2-Methylanthracene [Methyl-PAH, POM]	11/20	ChemSet-2		0.5		7
779022	9-Methylanthracene [Methyl-PAH, POM]	11/20	ChemSet-2		0.5		7
2422799	12-Methylbenz(a)anthracene [Methyl-PAH, POM]	11/20	ChemSet-2		0.5		7
65357699	Methylbenzopyrene [Methyl-PAH, POM]	11/20	ChemSet-2		0.5		7
56495	3-Methylcholanthrene [Methyl-PAH, POM]	09/90	Chemset-1	c	0.001	1 2 4	
41637905	Methylchrysene [Methyl-PAH, POM]	11/20	ChemSet-2		5		7
3351313	3-Methylchrysene [Methyl-PAH, POM]	11/20	ChemSet-2		5		7
3697243	5-Methylchrysene [Methyl-PAH, POM]		ChemSet-1	c	0.05	1 2 3 4 5	
1705857	6-Methylchrysene [Methyl-PAH, POM]	11/20	ChemSet-2		5		7
25889605	1-Methylfluoranthene [Methyl-PAH, POM]	11/20	ChemSet-2		0.5		7
1706010	3-Methylfluoranthene [Methyl-PAH, POM]	11/20	ChemSet-2		0.5		7
90120	1-Methylnaphthalene [Methyl-PAH, POM]	11/20	ChemSet-1		0.5		7 [19]

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91576	2-Methylnaphthalene [Methyl-PAH, POM]	07/96	e	c	0.5	1	
832699	1-Methylphenanthrene [Methyl-PAH, POM]	11/20	ChemSet-1		0.5		7
2531842	2-Methylphenanthrene [Methyl-PAH, POM]	11/20	ChemSet-2		0.5		7
832713	3-Methylphenanthrene [Methyl-PAH, POM]	11/20	ChemSet-2		0.5		7
883205	9-Methylphenanthrene [Methyl-PAH, POM]	11/20	ChemSet-2		0.5		7
2381217	1-Methylpyrene [Methyl-PAH, POM]	11/20	ChemSet-2		0.5		7
3353126	4-Methylpyrene [Methyl-PAH, POM]	11/20	ChemSet-2		0.5		7
483658	Retene [Methyl-PAH, POM]	11/20	ChemSet-2		0.5		7
2245387	2,3,5-Trimethylnaphthalene {1,6,7-Trimethylnaphthalene} [Methyl-PAH, POM]	11/20	ChemSet-2		0.5		7
	PAH-Derivatives (Polycyclic aromatic hydrocarbon derivatives) [POM] (including # but not limited to those substances listed in Appendix A with the bracketed designation [PAH-Derivative, POM])	06/91	e				
7440053	Palladium and compounds	11/20	ChemSet-1		100		7 [7]
	-- Parabens including but not limited to:	11/20	ChemSet-2		100		
94268	Butylparaben	11/20	ChemSet-2		100		7
120478	Ethylparaben	11/20	ChemSet-2		100		7
99763	Methylparaben	11/20	ChemSet-2		100		7
94133	n-Propylparaben	11/20	ChemSet-2		100		7
30525894	Paraformaldehyde	11/20	ChemSet-2		100		7
1910425	Paraquat	11/20	ChemSet-2		20		7 [19]
56382	Parathion	06/91	ChemSet-2	c	50	1 2 3 4	[19]
	1155 PBBs (Polybrominated biphenyls) [POM] including but not limited to:		Chemset-1	c	1	1 2 3 4 5	
13654096	Decabromobiphenyl	11/20	ChemSet-2	c	1	1 3 4 5 7	
59080409	2,2',4,4',5,5'-Hexabromobiphenyl (see Brominated and Chlorinated Organic Compounds Used as Flame Retardants)	11/20	(see cross-ref)		1	5	
67774327	Hexabromobiphenyl mixture including Firemaster FF-1 (see Brominated and Chlorinated Organic Compounds Used as Flame Retardants)	11/20	(see cross-ref)		1	5	
61288139	Octabromobiphenyl	11/20	ChemSet-2	c	1	1 3 4 5 7	
59536651	PBBs (mixed) including but not limited to: Firemaster® BP-6	11/20	ChemSet-2	c	1	1 3 4 7	
	1336363 PCBs (Polychlorinated biphenyls), total [POM] including but not limited to:		e	c	0.01	1 2 3 4 5 6	
53469219	Chlorodiphenyl (42% Chlorine, PCB 1242)	11/20	ChemSet-1		0.01		7
11097691	Chlorodiphenyl (54% Chlorine, PCB 1254)	11/20	ChemSet-1		0.01		7
39635319	2,3,3',4,4',5,5'-HEPTACHLOROBIPHENYL (PCB 189)	11/06	e	c	0.01	2 3 4 5	
38380084	2,3,3',4,4',5-HEXACHLOROBIPHENYL (PCB 156)	11/06	e	c	0.002	2 3 4 5	
69782907	2,3,3',4,4',5'-HEXACHLOROBIPHENYL (PCB 157)	11/06	e	c	0.002	2 3 4 5	
52663726	2,3',4,4',5,5'-HEXACHLOROBIPHENYL (PCB 167)	11/06	e	c	0.1	2 3 4 5	
32774166	3,3',4,4',5,5'-HEXACHLOROBIPHENYL (PCB 169)	11/06	e	c	0.0001	2 3 4 5	
32598144	2,3,3',4,4'-PENTACHLOROBIPHENYL (PCB 105)	11/06	e	c	0.01	2 3 4 5	
74472370	2,3,4,4',5-PENTACHLOROBIPHENYL (PCB 114)	11/06	e	c	0.002	2 3 4 5	
31508006	2,3',4,4',5-PENTACHLOROBIPHENYL (PCB 118)	11/06	e	c	0.01	2 3 4 5	
65510443	2,3',4,4',5-PENTACHLOROBIPHENYL (PCB 123)	11/06	e	c	0.01	2 3 4 5	
57465288	3,3',4,4',5-PENTACHLOROBIPHENYL (PCB 126)	11/06	e	c	0.00001	2 3 4 5	
32598133	3,3',4,4'-TETRACHLOROBIPHENYL (PCB 77)	11/06	e	c	0.01	2 3 4 5	
70362504	3,4,4',5-TETRACHLOROBIPHENYL (PCB 81)	11/06	e	c	0.01	2 3 4 5	
98566	PCBTf (see 1-Chloro-4-(trifluoromethyl)benzene)	11/20	(see cross-ref)	c	50	3 6	

**Appendix A-I  
Substances for Which Emissions Must Be Quantified**

Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Effective Phase [Note 23]	Carcinogen [Note 4]	Applicable Degree of Accuracy (lb/yr) [Note 5]	Source List(s) [Note 6]	Other Note(s)
40487421	Pendimethalin	11/20	ChemSet-2		100	7	[19]
19624227	Pentaborane	11/20	ChemSet-2		20	7	
60348609	Pentabromodiphenyl ether mixture [DE-71 (technical grade)]	11/20	ChemSet-2	c	1	4	
608719	Pentabromophenol {PBP} (see Brominated and Chlorinated Organic Compounds used as Flame Retardants)	11/20	(see cross-ref)		100	7	
608935	Pentachlorobenzene	11/20	ChemSet-2		10	7	
133493	Pentachlorobenzenethiol	11/20	ChemSet-2		100	7	
76017	Pentachloroethane	11/20	ChemSet-2		100	7	
1321648	Pentachloronaphthalene	11/20	ChemSet-2		100	7	
82688	Pentachloronitrobenzene {Quintobenzene} (see Chloronitrobenzenes)	06/91	e		100	1 2	
600146	2,3-Pentanedione	11/20	ChemSet-1		100	7	
1341453	2,3-Pentanedione (alt./deprecated CAS, see CAS 600146)	11/20	(see cross-ref)		100	7	
110667	1-Pentanethiol	11/20	ChemSet-2		100	7	
79210	Peracetic acid	06/91	e		100	1	
127184	Perchloroethylene {Tetrachloroethene}		e	c	5	1 2 3 4 5 6	
594423	Perchloromethyl mercaptan	11/20	ChemSet-2		50	7	[19]
7616946	Perchloryl fluoride	11/20	ChemSet-2		100	7	
	-- Perfluoro and Polyfluoro compounds including but not limited to:	11/20	-			7	
68391082	Alcohols, C8-14, gamma-omega-perfluoro	11/20	ChemSet-2		100	7	
97659477	Alkenes, C8-14 alpha-, delta-omega-perfluoro	11/20	ChemSet-2		100	7	
68188125	Alkyl iodides, C4-20, gamma-omega-perfluoro	11/20	ChemSet-2		100	7	
958445448	Ammonium 4,8-dioxa-3H-perfluorononanoate (ADONA Ammonium salt)	11/20	ChemSet-2		100	7	
67906427	Ammonium perfluorodecylsulfonate	11/20	ChemSet-2		100	7	
3825261	Ammonium perfluorooctanoate	11/20	ChemSet-1	c	10	7	
29081569	Ammonium perfluorooctylsulfonate	11/20	ChemSet-2		100	7	
68515628	1,4-Benzenedicarboxylic acid, dimethyl ester, reaction products with bis(2-hydroxyethyl) terephthalate, ethylene glycol, alpha-fluoro-omega-(2-hydroxyethyl)poly(difluoromethylene), hexakis(methoxymethyl)melamine and polyethylene glycol	11/20	ChemSet-2		100	7	
40143779	Bis(perfluorohexyl)phosphinic acid {Bis(tridecafluorohexyl)phosphinic acid}	11/20	ChemSet-2		100	7	
68187257	Butanoic acid, 4-[[3-(dimethylamino)propyl]amino]-4-oxo-, 2(or 3)-[(gamma-omega-perfluoro-C6-20-alkyl)thio] derivatives	11/20	ChemSet-2		100	7	
383073	N-Butylperfluorooctanesulphonamido ethyl acrylate	11/20	ChemSet-2		100	7	
2263094	N-Butylperfluorooctanesulphonamido ethyl alcohol	11/20	ChemSet-2		100	7	
756426581	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid {9-Cl-PF3ONS}	11/20	Chemset-2		100	7	
763051929	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid {11-Cl-PF3OUdS}	11/20	Chemset-2		100	7	
83329899	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonate (potassium or other salts)	11/20	Chemset-2		100	7	
68141026	Chromium (III) perfluorooctanoate	11/20	ChemSet-2		100	7	
67584423	Cyclohexanesulfonic acid, decafluoro(pentafluoroethyl)-, potassium salt (see Decafluoro-4-(pentafluoroethyl)cyclohexanesulfonate)	11/20	(see cross-ref)		100	7	
68156070	Cyclohexanesulfonic acid, decafluoro(trifluoromethyl)-, potassium salt	11/20	ChemSet-2		100	7	
68156014	Cyclohexanesulfonic acid, nonafluorobis(trifluoromethyl)-, potassium salt	11/20	ChemSet-2		100	7	
67584423	Decafluoro-4-(pentafluoroethyl)cyclohexanesulfonate {PFecHS}	11/20	Chemset-2		100	7	
919005144	4,8-Dioxa-3H-perfluorononanoic acid {ADONA}	11/20	Chemset-2		100	7	
118400718	Disulfides, bis(gamma-omega-perfluoro-C6-20-alkyl)	11/20	ChemSet-2		100	7	
27619916	1-Dodecanesulfonyl chloride, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-	11/20	ChemSet-2		100	7	

**Appendix A-I  
Substances for Which Emissions Must Be Quantified**

<b>Emittent ID</b> [Note 1]	<b>Substance Name</b> [Note 2]	<b>Add Date</b> [Note 3]	<b>Effective Phase</b> [Note 23]	<b>Carcinogen</b> [Note 4]	<b>Applicable Degree of Accuracy (lb/yr)</b> [Note 5]	<b>Source List(s)</b> [Note 6]	<b>Other Note(s)</b>
65636353	Ethanaminium, N,N-diethyl-N-methyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, methyl sulfate, polymer with 2-ethylhexyl 2-methyl-2-propenoate, alpha-fluoro-omega-[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]poly(difluoromethylene), 2-hydroxyethyl 2-methyl-2-propenoate and N-(hydroxymethyl)-2-propenamide	11/20	ChemSet-2		100	7	
182176529	Ethaneperoxoic acid, reaction products with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl thiocyanate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl thiocyanate	11/20	ChemSet-2		100	7	
65530645	Ethanol, 2,2'-iminobis-, compound with alpha,alpha'-[phosphinobis(oxy-2,1-ethanediyl)]bis[omega-fluoropoly(difluoromethylene)] (1:1)	11/20	ChemSet-2		100	7	
65530747	Ethanol, 2,2'-iminobis-, compound with alpha-fluoro-omega-[2-(phosphonoxy)ethyl]poly(difluoromethylene) (1:1)	11/20	ChemSet-2		100	7	
65530634	Ethanol, 2,2'-iminobis-, compound with alpha-fluoro-omega-[2-(phosphonoxy)ethyl]poly(difluoromethylene) (2:1)	11/20	ChemSet-2		100	7	
2991506	N-Ethyl-N-((heptadecafluorooctyl)sulfonyl)glycine (see 2-(N-Ethyl-perfluorooctanesulfonamido)acetic acid)	11/20	(see cross-ref)		100	7	
61660126	N-Ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-[3-(trimethoxysilyl)propyl]-1-octanesulfonamide	11/20	ChemSet-2		100	7	
67969691	N-Ethyl-N-(2-hydroxyethyl)perfluorooctanesulfonamide phosphate monoester diammonium salt	11/20	ChemSet-2		100	7	
2991506	2-(N-Ethyl-perfluorooctanesulfonamido)acetic acid {NEtFOSAA}	11/20	ChemSet-2		100	7	
423825	2-(N-Ethylperfluorooctanesulfonamido)ethyl acrylate	11/20	ChemSet-2		100	7	
1691992	N-Ethylperfluorooctanesulfonamidoethyl alcohol {N-EtFOSE}	11/20	ChemSet-2		100	7	
376147	N-Ethylperfluorooctylsulfonamidoethyl methacrylate	11/20	ChemSet-2		100	7	
29117086	N-Ethyl-N-polyoxyethylene-perfluorooctanesulfonamide	11/20	ChemSet-2		100	7	
72623779	Fatty acids, C6-18, perfluoro, ammonium salts	11/20	ChemSet-2		100	7	
72968388	Fatty acids, C7-13, perfluoro, ammonium salts	11/20	ChemSet-2		100	7	
178535234	Fatty acids, linseed-oil, gamma-omega-perfluoro-C8-14-alkyl esters	11/20	ChemSet-2		100	7	
67584627	Glycine, N-ethyl-N-[(pentadecafluoroheptyl)sulfonyl]-, potassium salt	11/20	ChemSet-2		100	7	
67584536	Glycine, N-ethyl-N-[(tridecafluorohexyl)sulfonyl]-, potassium salt	11/20	ChemSet-2		100	7	
67584525	Glycine, N-ethyl-N-[(undecafluoropentyl)sulfonyl]-, potassium salt	11/20	ChemSet-2		100	7	
55910106	Glycine, N-[(heptadecafluorooctyl)sulfonyl]-N-propyl-, potassium salt	11/20	ChemSet-2		100	7	
37858030	6:2 Fluorotelomer acetate	11/20	ChemSet-2		100	7	
37858041	8:2 Fluorotelomer acetate	11/20	ChemSet-2		100	7	
37858052	10:2 Fluorotelomer acetate	11/20	ChemSet-2		100	7	
17527296	6:2 Fluorotelomer acrylate	11/20	ChemSet-1		100	7	
27905459	8:2 Fluorotelomer acrylate	11/20	ChemSet-2		100	7	
17741605	10:2 Fluorotelomer acrylate	11/20	ChemSet-2		100	7	
647427	6:2 Fluorotelomer alcohol {FtOH 6:2}	11/20	ChemSet-1		100	7	
678397	8:2 Fluorotelomer alcohol {FtOH 8:2}	11/20	ChemSet-1		100	7	
865861	10:2 Fluorotelomer alcohol {FtOH 10:2}	11/20	ChemSet-1		100	7	
356025	3:3 Fluorotelomer carboxylic acid {FTCA 3:3}	11/20	Chemset-2		100	7	
914637493	5:3 Fluorotelomer carboxylic acid {5:3 acid} {FTCA 5:3}	11/20	ChemSet-2		100	7	
53826123	6:2 Fluorotelomer carboxylic acid	11/20	ChemSet-2		100	7	
812704	7:3 Fluorotelomer carboxylic acid {FTCA 7:3}	11/20	ChemSet-2		100	7	
27854315	8:2 Fluorotelomer carboxylic acid	11/20	ChemSet-2		100	7	
53826134	10:2 Fluorotelomer carboxylic acid	11/20	ChemSet-2		100	7	
57677959	6:2 Fluorotelomer phosphate diester {6:2 diPAP}	11/20	ChemSet-2		100	7	
943913153	6:2/8:2 Fluorotelomer phosphate diester {6:2/8:2 diPAP}	11/20	ChemSet-2		100	7	

**Appendix A-I  
Substances for Which Emissions Must Be Quantified**

<b>Emittent ID</b> [Note 1]	<b>Substance Name</b> [Note 2]	<b>Add Date</b> [Note 3]	<b>Effective Phase</b> [Note 23]	<b>Carcinogen</b> [Note 4]	<b>Applicable Degree of Accuracy (lb/yr)</b> [Note 5]	<b>Source List(s)</b> [Note 6]	<b>Other Note(s)</b>
678411	8:2 Fluorotelomer phosphate diester {8:2 diPAP}	11/20	ChemSet-2		100		7
57678010	6:2 Fluorotelomer phosphate monoester {6:2 monoPAP}	11/20	ChemSet-2		100		7
57678032	8:2 Fluorotelomer phosphate monoester {8:2 monoPAP}	11/20	ChemSet-2		100		7
425670753	6:2 Fluorotelomer sulfonate {FTS 6:2}	11/20	ChemSet-1		100		7
481071787	8:2 Fluorotelomer sulfonate	11/20	ChemSet-1		100		7
757124724	4:2 Fluorotelomer sulfonic acid {FTS 4:2}	11/20	ChemSet-1		100		7
27619972	6:2 Fluorotelomer sulfonic acid	11/20	ChemSet-1		100		7
39108344	8:2 Fluorotelomer sulfonic acid {FTS 8:2}	11/20	ChemSet-2		100		7
120226600	10:2 Fluorotelomer sulfonic acid {FTS 10:2}	11/20	ChemSet-2		100		7
70887886	6:2 Fluorotelomer unsaturated carboxylic acid	11/20	ChemSet-2		100		7
70887842	8:2 Fluorotelomer unsaturated carboxylic acid	11/20	ChemSet-2		100		7
70887944	10:2 Fluorotelomer unsaturated carboxylic acid	11/20	ChemSet-2		100		7
2355319	N-(Heptadecafluorooctylsulfonyl)-N-methylglycine {NMeFOSAA}	11/20	ChemSet-2		100		7
61798683	N-Heptadecafluoro-1,1,2,2-tetrahydrodecylpyridinium tosylate	11/20	ChemSet-2		100		7
68957620	1-Heptanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-	11/20	ChemSet-2		100		7
68555760	1-Heptanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-N-methyl-	11/20	ChemSet-2		100		7
68259074	1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, ammonium salt	11/20	ChemSet-2		100		7
70225159	1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, compound with 2,2'-iminobis[ethanol] (1:1)	11/20	ChemSet-2		100		7
13252136	Hexafluoropropylene oxide dimer acid {HFPO} and its ammonium salt {GenX/GenX Chemicals}	11/20	ChemSet-1		100		7
62037803	Hexafluoropropylene oxide dimer acid {HFPO} and its ammonium salt {GenX/GenX Chemicals} (alt. CAS, see CAS 13252136)	11/20	ChemSet-1		100		7
135228603	Hexane, 1,6-diisocyanato-, homopolymer, gamma-omega-perfluoro-C6-20-alc.-blocked	11/20	ChemSet-2		100		7
68555759	1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-	11/20	ChemSet-2		100		7
68259085	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, ammonium salt	11/20	ChemSet-2		100		7
70225160	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compound with 2,2'-iminobis[ethanol] (1:1)	11/20	ChemSet-2		100		7
2043530	1-Iodo-2-(perfluorooctyl)ethane	11/20	ChemSet-1		100		7
29457725	Lithium (perfluorooctane)sulfonate	11/20	ChemSet-2		100		7
2355319	N-Methyl-perfluorooctanesulfonamido acetic acid	11/20	ChemSet-2		100		7
24448097	N-Methylperfluorooctanesulfonamidoethanol {N-MeFOSE}	11/20	ChemSet-2		100		7
25268773	N-Methylperfluorooctanesulfonamidoethyl acrylate	11/20	ChemSet-2		100		7
376272	Methyl perfluorooctanoate	11/20	ChemSet-2		100		7
151772586	Nonafluoro-3,6-dioxahexanoic acid {NFDHA}	11/20	Chemset-2		100		7
17202414	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	11/20	ChemSet-2		100		7
178094694	1-Octanesulfonamide, N-[3-(dimethyloxidoamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-hepta decafluoro-, potassium salt	11/20	ChemSet-2		100		7
70225148	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-hepta decafluoro-, compound with 2,2'-iminobis[ethanol] (1:1)	11/20	ChemSet-2		100		7
68259096	1-Pentanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-, ammonium salt	11/20	ChemSet-2		100		7
70225171	1-Pentanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-, compound with 2,2'-iminobis[ethanol] (1:1)	11/20	ChemSet-2		100		7
68555748	1-Pentanesulfonamide, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2-hydroxyethyl)-N-methyl-	11/20	ChemSet-2		100		7
71608601	Pentanoic acid, 4,4-bis[(gamma-omega-perfluoro-C8-20-alkyl)thio] derivatives	11/20	ChemSet-2		100		7



**Appendix A-I  
Substances for Which Emissions Must Be Quantified**

<b>Emittent ID</b> [Note 1]	<b>Substance Name</b> [Note 2]	<b>Add Date</b> [Note 3]	<b>Effective Phase</b> [Note 23]	<b>Carcinogen</b> [Note 4]	<b>Applicable Degree of Accuracy (lb/yr)</b> [Note 5]	<b>Source List(s)</b> [Note 6]	<b>Other Note(s)</b>
1152	Perfluorobutane sulfonate (and salts)	11/20	ChemSet-1		100		7
375735	Perfluorobutane sulfonic acid {PFBS}	11/20	ChemSet-1		100		7
375224	Perfluorobutanoic acid {Perfluorobutyric acid} {PFBA}	11/20	ChemSet-1		100		7
126105348	Perfluorodecane sulfonate {PFDS}	11/20	ChemSet-2		100		7
335773	Perfluorodecane sulfonic acid	11/20	ChemSet-2		100		7
39108344	1H,1H,2H,2H-Perfluorodecane sulfonic acid (see 8:2 Fluorotelomer sulfonic acid)	11/20	(see cross-ref)		100		7
335762	Perfluorodecanoic acid {PFDA}	11/20	ChemSet-2		100		7
812704	2H,2H,3H,3H-Perfluorodecanoic acid {FTCA 7:3} (see 7:3 Fluorotelomer carboxylic acid)	11/20	(see cross-ref)		100		7
2043541	Perfluorodecylethyl iodide	11/20	ChemSet-2		100		7
2144549	Perfluorodecylethyl methacrylate	11/20	ChemSet-2		100		7
52299260	Perfluorodecylphosphonic acid {C10-PFPA}	11/20	ChemSet-2		100		7
79780395	Perfluorododecane sulfonate	11/20	ChemSet-2		100		7
120226600	1H,1H,2H,2H-Perfluorododecane sulfonate (see 10:2 Fluorotelomer sulfonic acid)	11/20	(see cross-ref)		100		7
1260224541	Perfluoro-1-dodecanesulfonate, sodium salt {PFDoS}	11/20	Chemset-2		100		7
70887842	2H-perfluoro-2-decenoic acid {8:2 FTUCA} {8:2 FOUEA} (see 8:2 Fluorotelomer unsaturated carboxylic acid)	11/20	(see cross-ref)		100		7
53826134	2-perfluorodecyl ethanoic acid {10:2 FDEA} (see 10:2 Fluorotelomer carboxylic acid)	11/20	(see cross-ref)		100		7
307551	Perfluorododecanoic acid {PFDoA}	11/20	ChemSet-2		100		7
39239775	Perfluorododecylethanol {PFA 12}	11/20	ChemSet-2		100		7
113507827	Perfluoro(2-ethoxyethane) sulfonic acid {PFEESA}	11/20	Chemset-2		100		7
646833	Perfluoroethylcyclohexane sulfonic acid	11/20	ChemSet-2		100		7
60270555	Perfluoroheptane sulfonate {PFHpS}	11/20	ChemSet-2		100		7
375928	Perfluoroheptane sulfonic acid	11/20	ChemSet-2		100		7
335717	Perfluoroheptanesulfonyl fluoride	11/20	ChemSet-2		100		7
375859	Perfluoroheptanoic acid {PFHpA}	11/20	ChemSet-2		100		7
67905195	Perfluorohexadecanoic acid {PFHxDA}	11/20	ChemSet-2		100		7
65104678	2-(Perfluorohexadecyl)ethanol	11/20	ChemSet-2		100		7
355464	Perfluorohexane sulfonic acid/sulfonate {PFHxS}	11/20	ChemSet-1		100		7
757124724	1H,1H,2H,2H-Perfluorohexane sulfonic acid (see 4:2 Fluorotelomer sulfonic acid)	11/20	(see cross-ref)		100		7
356025	2H,2H,3H,3H-Perfluorohexanoic acid {3:3 FTCA} (see 3:3 Fluorotelomer carboxylic acid)	11/20	(see cross-ref)		100		7
307244	Perfluorohexanoic acid {PFHxA}	11/20	ChemSet-1		100		7
53826123	2-perfluorohexyl ethanoic acid {6:2FTCA} {6:2 FHEA} (see 6:2 Fluorotelomer carboxylic acid)	11/20	(see cross-ref)		100		7
1996889	2-Perfluorohexyl ethyl methacrylate {6:2 FTMAC}	11/20	ChemSet-1		100		7
610800345	Perfluorohexylperfluorooctylphosphinic acid {6:8 PFPiA}	11/20	ChemSet-2		100		7
40143768	Perfluorohexylphosphonic acid	11/20	ChemSet-2		100		7
382218	Perfluoroisobutylene {PFIB}	11/20	ChemSet-1		1		7
30046312	Perfluorolaurylethyl iodide	11/20	ChemSet-2		100		7
6014751	Perfluorolauryl ethyl methacrylate	11/20	ChemSet-2		100		7
863090895	Perfluoro-4-methoxybutanoic acid {PFMBA}	11/20	Chemset-2		100		7
377731	Perfluoro-3-methoxypropanoic acid {PFMPA}	11/20	Chemset-2		100		7
1153	Perfluoromethylheptane sulfonic acid	11/20	ChemSet-2		100		7
31506328	Perfluoro-N-methyloctanesulfonamide {N-MeFOSA}	11/20	ChemSet-2		100		7
62037803	Perfluoro(2-methyl-3-oxahexanoic) acid {GenX/GenX Chemicals} (alt CAS, see CAS 13252136)	11/20	ChemSet-1		100		7
474511074	Perfluorononane sulfonate {PFNS}	11/20	ChemSet-2		100		7

**Appendix A-I  
Substances for Which Emissions Must Be Quantified**

Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Effective Phase [Note 23]	Carcinogen [Note 4]	Applicable Degree of Accuracy (lb/yr) [Note 5]	Source List(s) [Note 6]	Other Note(s)
68259121	Perfluorononane sulfonic acid	11/20	ChemSet-2		100		7
375951	Perfluorononanoic acid {PFNA}	11/20	ChemSet-2		10		7
16517116	Perfluorooctadecanoic acid {PFODA}	11/20	ChemSet-2		100		7
65104656	2-(Perfluorooctadecyl)ethanol	11/20	ChemSet-2		100		7
754916	Perfluorooctane sulfonamide {PFOSA}	11/20	ChemSet-2		100		7
45298906	Perfluorooctane sulfonate {PFOS}	11/20	ExistGrp		100	4	7
1763231	Perfluorooctane sulfonic acid	11/20	ExistGrp		100	4	7
27619972	1H,1H,2H,2H-Perfluorooctane sulfonic acid (see 6:2 Fluorotelomer sulfonic acid )	11/20	(see cross-ref)		100		7
307357	Perfluorooctane sulfonyl fluoride	11/20	ChemSet-1		100		7
335671	Perfluorooctanoic acid {PFOA}	11/20	ExistGrp	c	10	3 4	
2795393	Perfluorooctanoic acid {PFOA} and its salts, esters, and sulfonates	11/06	e	c	10	3 4	7
335660	Perfluorooctanoic acid fluoride	11/20	ChemSet-1		100		7
914637493	2H,2H,3H,3H-Perfluorooctanoic acid {5:3 acid} {FTCA 5:3} (see 5:3 Fluorotelomer carboxylic acid)	11/20	(see cross-ref)		100		7
70887886	2H-perfluoro-2-octenoic acid {6:2 FHUEA} (see 6:2 Fluorotelomer unsaturated carboxylic acid)	11/20	(see cross-ref)		100		7
27854315	2-perfluorooctyl ethanoic acid {8:2 FTA} {8:2 FOEA} (see 8:2 Fluorotelomer carboxylic acid)	11/20	(see cross-ref)		100		7
27619905	2-(Perfluorooctyl)ethanesulfonyl chloride	11/20	ChemSet-2		100		7
21652584	Perfluorooctyl ethylene	11/20	ChemSet-2		100		7
1996889	2-(Perfluorooctyl)ethyl methacrylate	11/20	ChemSet-1		100		7
40143780	Perfluorooctylphosphonic acid {PFOPA}	11/20	ChemSet-2		100		7
2706914	Perfluoropentane sulfonic acid	11/20	ChemSet-2		100		7
2706903	Perfluoropentanoic acid {PFPeA}	11/20	ChemSet-2		100		7
175905369	Perfluoropentane sulfonate {PFPeS}	11/20	ChemSet-2		100		7
376067	Perfluorotetradecanoic acid {PFTeDA}	11/20	ChemSet-2		100		7
72629948	Perfluorotridecanoic acid {PFTrDA}	11/20	ChemSet-2		100		7
2058948	Perfluoroundecanoic acid {PFUnA}	11/20	ChemSet-2		100		7
60699516	2-(Perfluorotetradecyl)ethanol {PFA 14}	11/20	ChemSet-2		100		7
65510556	Perfluorotetradecylethyl iodide	11/20	ChemSet-2		100		7
4980534	Perfluorotetradecylethyl methacrylate	11/20	ChemSet-2		100		7
68412691	Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivatives	11/20	ChemSet-2		100		7
68412680	Phosphonic acid, perfluoro-C6-12-alkyl derivatives	11/20	ChemSet-2		100		7
74499448	Phosphoric acid, alpha-omega-perfluoro-C8-16-alkyl esters, compounds with diethanolamine	11/20	ChemSet-2		100		7
123171686	Poly(difluoromethylene), alpha-[2-(acetyloxy)-3-[(carboxymethyl)dimethylammonio]propyl]-omega-fluoro-, inner salt	11/20	ChemSet-2		100		7
65530838	Poly(difluoromethylene), alpha-[2-[(2-carboxyethyl)thio]ethyl]-omega-fluoro-	11/20	ChemSet-2		100		7
65530690	Poly(difluoromethylene), alpha-[2-[(2-carboxyethyl)thio]ethyl]-omega-fluoro-, lithium salt	11/20	ChemSet-2		100		7
65605563	Poly(difluoromethylene), alpha-fluoro-omega-(2-hydroxyethyl)-, dihydrogen 2-hydroxy-1,2,3-propanetricarboxylate	11/20	ChemSet-2		100		7
65605574	Poly(difluoromethylene), alpha-fluoro-omega-(2-hydroxyethyl)-, hydrogen 2-hydroxy-1,2,3-propanetricarboxylate	11/20	ChemSet-2		100		7
65530598	Poly(difluoromethylene), alpha-fluoro-omega-(2-hydroxyethyl)-, 2-hydroxy-1,2,3-propanetricarboxylate (3:1)	11/20	ChemSet-2		100		7
65530667	Poly(difluoromethylene), alpha-fluoro-omega-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-	11/20	ChemSet-2		100		7
65530656	Poly(difluoromethylene), alpha-fluoro-omega-[2-[(1-oxooctadecyl)oxy]ethyl]-	11/20	ChemSet-2		100		7
65605734	Poly(difluoromethylene), alpha-fluoro-omega-[2-[(1-oxo-2-propenyl)oxy]ethyl]-, homopolymer	11/20	ChemSet-2		100		7

**Appendix A-I  
Substances for Which Emissions Must Be Quantified**

<b>Emittent ID</b> [Note 1]	<b>Substance Name</b> [Note 2]	<b>Add Date</b> [Note 3]	<b>Effective Phase</b> [Note 23]	<b>Carcinogen</b> [Note 4]	<b>Applicable Degree of Accuracy (lb/yr)</b> [Note 5]	<b>Source List(s)</b> [Note 6]	<b>Other Note(s)</b>
65530623	Poly(difluoromethylene), alpha, alpha'-[phosphinicobis(oxy-2,1-ethanediyl)]bis[omega-fluoro-	11/20	ChemSet-2		100		7
65530703	Poly(difluoromethylene), alpha, alpha'-[phosphinicobis(oxy-2,1-ethanediyl)]bis[omega-fluoro-, ammonium salt	11/20	ChemSet-2		100		7
65530612	Poly(difluoromethylene), alpha-fluoro-omega-[2-(phosphonooxy)ethyl]-	11/20	ChemSet-2		100		7
95144120	Poly(difluoromethylene), alpha-fluoro-omega-[2-(phosphonooxy)ethyl]-, ammonium salt	11/20	ChemSet-2		100		7
65530725	Poly(difluoromethylene), alpha-fluoro-omega-[2-(phosphonooxy)ethyl]-, diammonium salt	11/20	ChemSet-2		100		7
65530714	Poly(difluoromethylene), alpha-fluoro-omega-[2-(phosphonooxy)ethyl]-, monoammonium salt	11/20	ChemSet-2		100		7
80010373	Poly(difluoromethylene), alpha-fluoro-omega-[2-sulphoethyl]-	11/20	ChemSet-2		100		7
68958612	Poly(oxy-1,2-ethanediyl), alpha-[2-ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl]-omega-methoxy-	11/20	ChemSet-2		100		7
68298817	Poly(oxy-1,2-ethanediyl), alpha-[2-ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl]-omega-hydroxy-	11/20	ChemSet-2		100		7
68958601	Poly(oxy-1,2-ethanediyl), alpha-[2-ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl]-omega-methoxy-	11/20	ChemSet-2		100		7
56372237	Poly(oxy-1,2-ethanediyl), alpha-[2-ethyl[(tridecafluorohexyl)sulfonyl]amino]ethyl]-omega-hydroxy-	11/20	ChemSet-2		100		7
68298806	Poly(oxy-1,2-ethanediyl), alpha-[2-ethyl[(undecafluoropentyl)sulfonyl]amino]ethyl]-omega-hydroxy-	11/20	ChemSet-2		100		7
65545804	Poly(oxy-1,2-ethanediyl), alpha-hydro-omega-hydroxy-, ether with alpha-fluoro-omega-(2-hydroxyethyl)poly(difluoromethylene) (1:1)	11/20	ChemSet-2		100		7
70983594	Poly(oxy-1,2-ethanediyl), alpha-methyl-omega-hydroxy-, 2-hydroxy-3-[[gamma-omega-perfluoro-C6-20-alkyl]thio]propyl ethers	11/20	ChemSet-2		100		7
68259392	Poly[oxy(methyl-1,2-ethanediyl)], alpha-[2-ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl]-omega-hydroxy-	11/20	ChemSet-2		100		7
68259381	Poly[oxy(methyl-1,2-ethanediyl)], alpha-[2-ethyl[(tridecafluorohexyl)sulfonyl]amino]ethyl]-omega-hydroxy-	11/20	ChemSet-2		100		7
68310178	Poly[oxy(methyl-1,2-ethanediyl)], alpha-[2-ethyl[(undecafluoropentyl)sulfonyl]amino]ethyl]-omega-hydroxy-	11/20	ChemSet-2		100		7
37338480	Polypropylene glycol mono[2-(N-ethyl perfluorooctanesulfonamido)ethyl] ether	11/20	ChemSet-2		100		7
3107184	Potassium perfluorocyclohexyl sulfonate	11/20	ChemSet-2		100		7
3871996	Potassium perfluorohexanesulfonate	11/20	ChemSet-2		100		7
2991517	Potassium N-perfluorooctylsulfonyl-N-ethylglycinate	11/20	ChemSet-2		100		7
3872251	Potassium perfluoropentanesulfonate	11/20	ChemSet-2		100		7
1078715613	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-[2-[[gamma-omega-perfluoro-C4-20-alkyl]thio]acetyl] derivatives, inner salts	11/20	ChemSet-2		100		7
38006745	1-Propanaminium, 3-[[heptadecafluorooctyl)sulfonyl]amino]-N,N,N-trimethyl-, chloride	11/20	ChemSet-2		100		7
70983607	1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-, 3-[[gamma-omega-perfluoro-C6-20-alkyl]thio] derivatives, chlorides	11/20	ChemSet-2		100		7
68555817	1-Propanaminium, N,N,N-trimethyl-3-[[pentadecafluoroheptyl)sulfonyl]amino]-, chloride	11/20	ChemSet-2		100		7
67584581	1-Propanaminium, N,N,N-trimethyl-3-[[pentadecafluoroheptyl)sulfonyl]amino]-, iodide	11/20	ChemSet-2		100		7
52166822	1-Propanaminium, N,N,N-trimethyl-3-[[tridecafluorohexyl)sulfonyl]amino]-, chloride	11/20	ChemSet-2		100		7
68957584	1-Propanaminium, N,N,N-trimethyl-3-[[tridecafluorohexyl)sulfonyl]amino]-, iodide	11/20	ChemSet-2		100		7
68957551	1-Propanaminium, N,N,N-trimethyl-3-[[undecafluoropentyl)sulfonyl]amino]-, chloride	11/20	ChemSet-2		100		7
68957573	1-Propanaminium, N,N,N-trimethyl-3-[[undecafluoropentyl)sulfonyl]amino]-, iodide	11/20	ChemSet-2		100		7
238420809	Propanedioic acid, mono(gamma-omega-perfluoro-C8-12-alkyl) derivatives, bis[4-(ethenyloxy)butyl] esters	11/20	ChemSet-2		100		7

**Appendix A-I  
Substances for Which Emissions Must Be Quantified**

Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Effective Phase [Note 23]	Carcinogen [Note 4]	Applicable Degree of Accuracy (lb/yr) [Note 5]	Source List(s) [Note 6]	Other Note(s)
238420683	Propanedioic acid, mono(gamma-omega-perfluoro-C8-12-alkyl) derivatives, di-me esters	11/20	ChemSet-2		100	7	
148240851	1,3-Propanediol, 2,2-bis[[gamma-omega-perfluoro-C4-10-alkyl]thio]methyl] derivs., phosphates, ammonium salts	11/20	ChemSet-2		100	7	
148240873	1,3-Propanediol, 2,2-bis[[gamma-omega-perfluoro-C6-12-alkyl]thio]methyl] derivatives, phosphates, ammonium salts	11/20	ChemSet-2		100	7	
1078142105	1,3-Propanediol, 2,2-bis[[gamma-omega-perfluoro-C6-12-alkyl]thio]methyl] derivs., polymers with 2,2-bis[[gamma-omega-perfluoro-C10-20-alkyl]thio]methyl]-1,3-propanediol, 1,6-diisocyanato-2,2,4(or 2,4,4)-trimethylhexane, 2-heptyl-3,4-bis(9-isocyanatononyl)-1-pentylcyclohexane and 2,2'-(methylimino)bis[ethanol]	11/20	ChemSet-2		100	7	
148240895	1,3-Propanediol, 2,2-bis[[gamma-omega-perfluoro-C10-20-alkyl]thio]methyl] derivatives, phosphates, ammonium salts	11/20	ChemSet-2		100	7	
68187473	1-Propanesulfonic acid, 2-methyl-, 2-[[1-oxo-3-[[gamma-omega-perfluoro-C4-16-alkyl]thio]propyl]amino] derivatives, sodium salts	11/20	ChemSet-2		100	7	
68227963	2-Propenoic acid, butyl ester, telomer with 2-[[heptadecafluorooctyl]sulfonyl]methylamino]ethyl 2-propenoate, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, alpha-(2-methyl-1-oxo-2-propenyl)-omega-hydroxypoly(oxy-1,4-butanediyl), alpha-(2-methyl-1-oxo-2-propenyl)-omega-[[2-methyl-1-oxo-2-propenyl]oxy]poly(oxy-1,4-butanediyl), 2-[methyl[[pentadecafluoroheptyl]sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[[tridecafluorohexyl]sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[[undecafluoropentyl]sulfonyl]amino]ethyl 2-propenoate and 1-octanethiol	11/20	ChemSet-2		100	7	
68298624	2-Propenoic acid, 2-[butyl[[heptadecafluorooctyl]sulfonyl]amino]ethyl ester, telomer with 2-[butyl[[pentadecafluoroheptyl]sulfonyl]amino]ethyl 2-propenoate, methyloxirane polymer with oxirane di-2-propenoate, methyloxirane polymer with oxirane mono-2-propenoate and 1-octanethiol	11/20	ChemSet-2		100	7	
65605585	2-Propenoic acid, esters, 2-methyl-, dodecyl ester, polymer with alpha-fluoro-omega-[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl]poly(difluoromethylene)	11/20	ChemSet-2		100	7	
59071102	2-Propenoic acid, 2-[ethyl[[pentadecafluoroheptyl]sulfonyl]amino]ethyl ester	11/20	ChemSet-2		100	7	
68867607	2-Propenoic acid, 2-[[heptadecafluorooctyl]sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[[pentadecafluoroheptyl]sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[[tridecafluorohexyl]sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[[undecafluoropentyl]sulfonyl]amino]ethyl 2-propenoate and alpha-(1-oxo-2-propenyl)-omega-methoxypoly(oxy-1,2-ethanediyl)	11/20	ChemSet-2		100	7	
150135572	2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with Bu acrylate, gamma-omega-perfluoro-C8-14-alkyl acrylate and polyethylene glycol monomethacrylate, 2,2'-azobis[2,4-dimethylpentanenitrile]-initiatec	11/20	ChemSet-2		100	7	
196316344	2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with gamma-omega-perfluoro-C10-16-alkyl acrylate and vinyl acetate, acetates	11/20	ChemSet-2		100	7	
65605596	2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with alpha-fluoro-omega-[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl]poly(difluoromethylene) and N-(hydroxymethyl)-2-propenamide	11/20	ChemSet-2		100	7	
68555919	2-Propenoic acid, 2-methyl-, 2-[ethyl[[heptadecafluorooctyl]sulfonyl]amino]ethyl ester, polymer with 2-[ethyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[[pentadecafluoroheptyl]sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[[tridecafluorohexyl]sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[[undecafluoropentyl]sulfonyl]amino]ethyl 2-methyl-2-propenoate and octadecyl 2-methyl-2-propenoate	11/20	ChemSet-2		100	7	
68239430	2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymer with alpha-fluoro-omega-[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl]poly(difluoromethylene), 2-hydroxyethyl 2-methyl-2-propenoate and N-(hydroxymethyl)-2-propenamide	11/20	ChemSet-2		100	7	

**Appendix A-I  
Substances for Which Emissions Must Be Quantified**

Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Effective Phase [Note 23]	Carcinogen [Note 4]	Applicable Degree of Accuracy (lb/yr) [Note 5]	Source List(s) [Note 6]	Other Note(s)
142636882	2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate	11/20	ChemSet-2		100	7	
68084628	2-Propenoic acid, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl ester	11/20	ChemSet-2		100	7	
200513424	2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10, 10,10- heptadecafluorodecyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate	11/20	ChemSet-2		100	7	
67584570	2-Propenoic acid, 2-[methyl[(tridecafluoroheptyl)sulfonyl]amino]ethyl ester	11/20	ChemSet-2		100	7	
67584569	2-Propenoic acid, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl ester	11/20	ChemSet-2		100	7	
83048651	Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)trimethoxy-	11/20	ChemSet-2		100	7	
78560448	Silane, trichloro(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)-	11/20	ChemSet-2		100	7	
125476713	Silicic acid (H4SiO4), disodium salt, reaction products with chlorotrimethylsilane and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluoro-1-decano	11/20	ChemSet-2		100	7	
143372547	Siloxanes and Silicones, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy Me, hydroxy Me, Me octyl, ethers with polyethylene glycol mono-Me ethe	11/20	ChemSet-2		100	7	
30381987	Sodium bis-[2-(N-ethylperfluorooctane-1- sulfonamido)ethyl] phosphate	11/20	ChemSet-2		100	7	
2624808	Sodium 2-(N-ethylperfluorooctane-1- sulfonamido)ethyl phosphate	11/20	ChemSet-2		100	7	
335955	Sodium perfluorooctanoate	11/20	ChemSet-2		100	7	
180582790	Sulfonic acids, C6-12-alkane, gamma-omega-perfluoro, ammonium salts	11/20	ChemSet-2		100	7	
4151502	N-Ethyl perfluorooctane sulfonamid {EtFOSA} {MeFOSAm} {Sulfuramid}	11/20	ChemSet-2		100	7	
68758576	1-Tetradecanesulfonyl chloride, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuoro-	11/20	ChemSet-2		100	7	
56773423	Tetraethylammonium perfluorooctylsulfonate	11/20	ChemSet-2		100	7	
13252136	2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoic acid	11/20	ChemSet-2		100	7	
29311679	1,1,2,2-Tetrafluoro-2-((1,1,1,2,3,3-hexafluoro-3-((trifluorovinyl)oxy)-2-propanyl)oxy)ethane sulfonic acid	11/20	ChemSet-2		100	7	
34362497	1,1,2,2-Tetrahydroperfluorohexadecyl acrylate	11/20	ChemSet-2		100	7	
34395249	1,1,2,2-Tetrahydroperfluorotetradecyl acrylate	11/20	ChemSet-2		100	7	
1652637	N,N,N-Trimethyl-3-(perfluorooctylsulfonamido)propan-1-aminium iodide	11/20	ChemSet-2		100	7	
97553952	Thiocyanic acid, gamma-omega-perfluoro-C4-20-alkyl esters	11/20	ChemSet-2		100	7	
68140181	Thiols, C4-10, gamma-omega-perfluoro	11/20	ChemSet-2		100	7	
1078712885	Thiols, C4-20, gamma-omega-perfluoro, telomers with acrylamide and acrylic acid, sodium salts	11/20	ChemSet-2		100	7	
68140205	Thiols, C6-12, gamma-omega-perfluoro	11/20	ChemSet-2		100	7	
70969470	Thiols, C8-20, alpha-gamma-perfluoro, telomers with acrylamide	11/20	ChemSet-2		100	7	
68140216	Thiols, C10-20, gamma-omega-perfluoro	11/20	ChemSet-2		100	7	[19]
52645531	Permethrin	11/20	ChemSet-2		100	7	
4707715	9-Phenanthrenecarboxaldehyde [PAH-Derivative/Related, POM]	11/20	ChemSet-2		100	7	
156434	p-Phenetidine	11/20	ChemSet-2		100	7	
108952	Phenol		e		200	1 2	
108452	meta-Phenylenediamine	11/20	ChemSet-2		50	7	[19]
95545	o-Phenylenediamine and its salts	11/20	ChemSet-2	c	50	3 4	[19]
615281	o-Phenylenediamine dihydrochloride	11/20	ChemSet-2	c	50	3 4	
106503	p-Phenylenediamine	06/91	e		100	1 2	
8004135	Phenyl ether-biphenyl mixture (vapor)	11/20	ChemSet-2		100	7	
100630	Phenylhydrazine and its salts	11/20	ChemSet-2	c	50	4	
59881	Phenylhydrazine hydrochloride	11/20	ChemSet-2		100	4	

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Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Effective Phase [Note 23]	Carcinogen [Note 4]	Applicable Degree of Accuracy (lb/yr) [Note 5]	Source List(s) [Note 6]	Other Note(s)
90437	2-Phenylphenol [POM]	06/91	e		100	1 2	[19]
298022	Phorate	11/20	ChemSet-2		20	7	
75445	Phosgene		e		2	1 2	[19]
732116	Phosmet	11/20	ChemSet-2		100	7	[19]
	-- Phosphine generating compounds	11/20	ChemSet-1		100	7	[7] [19]
20859738	Aluminum Phosphide	11/20	ChemSet-1		100	7	[19]
2168685	Bis(1-aziridiny)morpholinophosphine sulfide	11/20	ChemSet-2		100	7	[7] [19]
22398807	Indium phosphide (see Indium and compounds)	11/20	(see cross-ref)	c	50	3 4	[7] [19]
12057748	Magnesium Phosphide	11/20	ChemSet-1		100	7	[19]
638211	Phenylphosphine	11/20	ChemSet-1		50	4	[19]
57396	Tris(2-methyl-1-aziridiny)phosphine oxide	11/20	ChemSet-1		100	7	[7] [19]
1314847	Zinc Phosphide	11/20	ChemSet-1		100	7	[19]
51810709	Zinc Phosphide (alt. CAS No. 1., see CAS 1314847)	11/20	(see cross-ref)		100	7	[19]
12037795	Zinc Phosphide (alt. CAS No. 2., see CAS 1314847)	11/20	(see cross-ref)		100	7	
7723140	Phosphorus		e		0.1	1 2	
	-- Phosphorus compounds:	09/89	e			2	
7803512	Phosphine		e		0.01	1 2	7
7664382	Phosphoric acid	09/89	e		50	1 2	
10025873	Phosphorus oxychloride	09/89	e		0.1	2	
10026138	Phosphorus pentachloride	09/89	e		0.1	2	
1314563	Phosphorus pentoxide	09/89	e		0.1	2	
7719122	Phosphorus trichloride	09/89	e		0.1	2	[20]
126738	Tributyl phosphate	09/89	e		100	2	
78400	Triethyl phosphate	09/89	e		100	2	
512561	Trimethyl phosphate	09/89	e	c	50	2 4	
78308	Triorthocresyl phosphate [POM]	09/89	e		0.5	1 2	
115866	Triphenyl phosphate [POM]	09/89	e		100	1 2	
101020	Triphenyl phosphite [POM]	09/89	e		100	1 2	
	-- Phthalates, ortho-Phthalates including:	11/20	-		100		
85687	Butyl benzyl phthalate {BBP} {BzBP}	06/91	e		100	1 4	
84742	Dibutyl phthalate {Di-n-butyl phthalate} {DBP} {DnBP}	06/91	e		100	1 2 4	
84617	Dicyclohexyl phthalate {DCHP}	11/20	ChemSet-2		100		7
117817	Di(2-ethylhexyl) phthalate {DEHP}		e	c	20	1 2 3 4 5	
84662	Diethyl phthalate	06/91	e		100		7
84753	Di-n-hexyl phthalate {DnHP}	11/20	Chemset-1		100	4	
84695	Di-isobutyl phthalate {DIBP}	11/20	ChemSet-1		100		7
26761400	Di-isodecyl phthalate	11/20	ChemSet-1		100	4 5	
68515491	Di-isodecyl phthalate, C9-11 branched esters, C10 rich	11/20	ChemSet-1		100	4 5	
89167	Di-isodecyl phthalate mixture {Bis(8-methylnonyl) phthalate}	11/20	ChemSet-1		100	4 5	
119394455	Di-isodecyl phthalate mixture {1,2-Benzenedicarboxylic acid, 4,4'-carbonylbis-, 1,1',2,2'-tetraisodecyl ester}	11/20	ChemSet-1		100	4 5	
71888896	Di-isoheptyl phthalate {DIHP}	11/20	ChemSet-2		100		7
146509	Di-isohexyl phthalate {DHP}	11/20	ChemSet-2		100		7
28553120	Di-isononyl phthalate {DINP}	11/20	ChemSet-1	c	20	4	
68515480	Di-isononyl phthalate {DINP}, C8-10 branched esters, C9 rich (alt. CAS, see CAS 28553120)	11/20	(see cross-ref)	c	20	4	

**Appendix A-I  
Substances for Which Emissions Must Be Quantified**

Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Effective Phase [Note 23]	Carcinogen [Note 4]	Applicable Degree of Accuracy (lb/yr) [Note 5]	Source List(s) [Note 6]	Other Note(s)
131113	Dimethyl phthalate {DMP}	06/91	e		50	1 2	
131180	Di-n-pentyl phthalate	11/20	ChemSet-2		100		7
53306540	Di(2-propylheptyl) phthalate {DPHP}	11/20	ChemSet-2		100		7
88993	Phthalic acid	11/20	ChemSet-2		0.01		7
85449	Phthalic anhydride		e		0.01	1 2	
85416	Phthalimide	11/20	ChemSet-2		100		7
91156	Phthalonitrile {1,2-Benzenedicarbonitrile}	11/20	ChemSet-2		100		7
108996	beta-Picoline	11/20	ChemSet-2		100		7
51036	Piperonyl butoxide	11/20	ChemSet-2		100		7 [7]
7440064	Platinum and compounds	11/20	ChemSet-1		100		7
2222	Polybrominated diphenyl ethers {PBDEs}, including but not limited to:	11/06	e		1		7
1163195	Decabromodiphenyl oxide {BDE 209} [POM]	06/91	e		1	1 2	
	-- Polychlorinated dibenzo-p-dioxins {PCDDs or Dioxins} [POM] including but not limited to:		e			1 2	
1086	Dioxins, total, w/o individ. isomers reported {PCDDs} [POM]		e	c	0.000001	1 2	
1085	Dioxins, total, with individ. isomers also reported {PCDDs} [POM]		e	c	0.000001	1 2	
1746016	2,3,7,8-Tetrachlorodibenzo-p-dioxin {TCDD} [POM]		e	c	0.000001	1 2 3 4 5	
40321764	1,2,3,7,8-Pentachlorodibenzo-p-dioxin [POM]		e	c	0.000001	1 2	
39227286	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin [POM]		e	c	0.000001	1 2 4	
57653857	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin [POM]		e	c	0.000001	1 2	
19408743	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin [POM]		e	c	0.000001	1 2	
35822469	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin [POM]		e	c	0.000001	1 2	
3268879	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin [POM]	07/96	e	c	0.000001	1 2	
41903575	Total Tetrachlorodibenzo-p-dioxin [POM]	07/96	e	c	0.000001	1 2	
36088229	Total Pentachlorodibenzo-p-dioxin [POM]	07/96	e	c	0.000001	1 2	
34465468	Total Hexachlorodibenzo-p-dioxin [POM]	07/96	e	c	0.000001	1 2	
37871004	Total Heptachlorodibenzo-p-dioxin [POM]	07/96	e	c	0.000001	1 2	
	-- Polychlorinated dibenzofurans {PCDFs or Dibenzofurans} [POM] including but not limited to:		e	c		1 2	
1080	Dibenzofurans (Polychlorinated dibenzofurans) {PCDFs} [POM]		e	c	0.000001	1 2	
51207319	2,3,7,8-Tetrachlorodibenzofuran [POM]		e	c	0.000001	1 2	
57117416	1,2,3,7,8-Pentachlorodibenzofuran [POM]		e	c	0.000001	1 2	
57117314	2,3,4,7,8-Pentachlorodibenzofuran [POM]		e	c	0.000001	1 2 3	
70648269	1,2,3,4,7,8-Hexachlorodibenzofuran [POM]		e	c	0.000001	1 2	
57117449	1,2,3,6,7,8-Hexachlorodibenzofuran [POM]		e	c	0.000001	1 2	
72918219	1,2,3,7,8,9-Hexachlorodibenzofuran [POM]		e	c	0.000001	1 2	
60851345	2,3,4,6,7,8-Hexachlorodibenzofuran [POM]		e	c	0.000001	1 2	
67562394	1,2,3,4,6,7,8-Heptachlorodibenzofuran [POM]		e	c	0.000001	1 2	
55673897	1,2,3,4,7,8,9-Heptachlorodibenzofuran [POM]		e	c	0.000001	1 2	
39001020	1,2,3,4,6,7,8,9-Octachlorodibenzofuran [POM]	07/96	e	c	0.000001	1 2	
55722275	Total Tetrachlorodibenzofuran [POM]	07/96	e	c	0.000001	1 2	
30402154	Total Pentachlorodibenzofuran [POM]	07/96	e	c	0.000001	1 2	
55684941	Total Hexachlorodibenzofuran [POM]	07/96	e	c	0.000001	1 2	
38998753	Total Heptachlorodibenzofuran [POM]	07/96	e	c	0.000001	1 2	
61788338	Polychlorinated terphenyls {PCTs}	11/20	ChemSet-2		100		7 [15]
#	POM (Polycyclic organic matter) (including but not limited to those substances listed in Appendix A with the bracketed designation of [POM], [PAH, POM], or [PAH-Derivative, POM])	09/89	e			1 2	[19]

**Appendix A-I  
Substances for Which Emissions Must Be Quantified**

Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Effective Phase [Note 23]	Carcinogen [Note 4]	Applicable Degree of Accuracy (lb/yr) [Note 5]	Source List(s) [Note 6]	Other Note(s)
61790441	Potash soap	11/20	ChemSet-2		100	7	[19]
128030	Potassium dimethyldithiocarbamate	11/20	ChemSet-2		100	4	[19]
13492267	Potassium phosphite	11/20	ChemSet-2		100	7	[19]
32809168	Procymidone	11/20	ChemSet-2	c	50	4	
80057	4,4'-(Propane-2,2-diyl)diphenol (see Bisphenol A)	11/20	(see cross-ref)		100	1 2 6	
107039	1-Propanethiol	11/20	ChemSet-2		100	7	
1120714	1,3-Propane sultone		e	c	0.05	1 2 3 4 5	[19]
709988	Propanil	11/20	ChemSet-2		100	7	[19]
2312358	Propargite	11/20	ChemSet-2	c	50	4	
107197	Propargyl alcohol	11/20	ChemSet-2		100	7	
57578	beta-Propiolactone		e	c	10	1 2 3 4 5	
123386	Propionaldehyde	06/91	e		200	1 2	
107120	Propionitrile	11/20	ChemSet-2		100	7	
114261	Propoxur {Baygon}	06/91	e	c	50	1 2 4	
71238	n-Propyl alcohol	11/20	ChemSet-2		100	7	
106945	n-Propyl Bromide {1-Bromopropane}	11/20	ChemSet-1	c	50	3 4 5 6	[19]
627123	n-Propyl carbamate	11/20	ChemSet-2		100	7	
115071	Propylene		e		200	1 2	
6423434	Propylene glycol dinitrate	11/20	ChemSet-2		100	7	
75569	Propylene oxide		e	c	10	1 2 3 4 5	
	- 1,2-Propyleneimine (see 2-Methylaziridine)		e				[19]
23950585	Propyzamide	11/20	ChemSet-2		100	7	[19]
123312890	Pymetrozine	11/20	ChemSet-2	c	50	4	
110861	Pyridine	06/91	e	c	50	3 4	7
91225	Quinoline	06/91	e	c	50	1 2 3 4	
106514	Quinone	06/91	e		100	1 2	[16]
1165	Radionuclides including but not limited to:		e	c	100	1 2 4	
10043660	Iodine-131	09/89	e	c	100	1 2 3 4	
1166	Radon and its decay products	09/89	e	c	100	1 4	
50555	Reserpine [POM]		e	c	100	1 2 4 5	
	# Residual (heavy) fuel oils	06/91	e	c			[19]
10453868	Resmethrin	11/20	ChemSet-2	c	50	4	
483658	Retene [Methyl-PAH, POM] (see PAH, Methyl-PAH)	11/20	(see cross-ref)		0.5	7	[7]
7440166	Rhodium and compounds	11/20	ChemSet-1		50	7	
36791045	Ribavirin	09/90	ChemSet-2		100	4 6	[7]
7440188	Ruthenium and compounds	11/20	ChemSet-1		100	7	[19]
874967676	Sedaxane	11/20	ChemSet-2	c	0.1	4	
7782492	Selenium		e		0.5	2	[7]
	* Selenium compounds including but not limited to:		e		0.5	1 2	
7783075	Hydrogen selenide	11/06	e		0.1	7	[7]
7446346	Selenium sulfide	09/90	e	c	0.1	2 4 5	
7783791	Selenium hexafluoride	11/20	ExistGrp		100	7	
1180	Shale oils	11/20	e	c	50	3 4	
68308349	Shale oils	11/20	e	c	50	3 4	



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Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Effective Phase [Note 23]	Carcinogen [Note 4]	Applicable Degree of Accuracy (lb/yr) [Note 5]	Source List(s) [Note 6]	Other Note(s)
	1175 Silica, crystalline (respirable), in the form of quartz or cristobalite		e	c	0.1	1 3 4	
14464461	Silica, crystalline (respirable), in the form of cristobalite	11/20	ChemSet-1	c	0.1	1 3 4	
14808607	Silica, crystalline (respirable), in the form of quartz	11/20	ChemSet-1	c	0.1	1 3 4	
409212	Silicon carbide whiskers	11/20	ChemSet-2	c	50	3	
308076746	Silicon carbide, fibrous	11/20	ChemSet-2	c	50	3	
7440224	Silver	06/91	e		2		7 [7]
	* Silver compounds	06/91	e		2	1	[19]
122349	Simazine	11/20	ChemSet-2		10	4	
26628228	Sodium azide	11/20	ChemSet-2		0.1		7
7758192	Sodium chlorite	11/20	ChemSet-2		100		7
922805	Sodium diamyl sulfosuccinate	11/20	ChemSet-2		100		7
128041	Sodium dimethyldithiocarbamate	11/20	ChemSet-2		100	4	
1310732	Sodium hydroxide		e		2	1 2	
124414	Sodium methoxide	11/20	ChemSet-2		100		7 [19]
7345699	Sodium tetrathiocarbamate	11/20	ChemSet-2		100		7
	1186 Special-purpose fibres such as E-glass and '475' glass fibres	11/20	ChemSet-2	c	50	3	[19]
148477718	Spirodiclofen	11/20	ChemSet-2	c	50	4	[19]
	78488 S,S,S-Tributyl phosphorotrithioate {Tribufos}	11/20	ChemSet-2	c	2	4	
7803523	Stibine (Antimony hydride) (see Antimony Compounds)	11/20	(see cross-ref)		1	1 2 3 4	7
9003547	Styrene-acrylonitrile copolymers (must report the individual monomer components)	11/20	ChemSet-1		10		7
9003558	Styrene-butadiene copolymers (must report the individual monomer components)	11/20	ChemSet-1		10		7
100425	Styrene		e	c	10	1 2 3 4	6
98839	Styrene: Methylstyrene (alpha-Methylstyrene)	11/20	ChemSet-1	c	10	3 4	
96093	Styrene oxide		e	c	10	1 2 3 4	
9014011	Subtilisins	11/20	ChemSet-2		0.1		7
1395217	Subtilisins (alt. CAS, see CAS 9014011)	11/20	(see cross-ref)		0.1		7
108305	Succinic anhydride	11/20	ChemSet-2		100		7
57681	Sulfamethazine	11/20	ChemSet-2		100		7
41481667	4,4'-Sulfonylbis[2-(2-propen-1-yl)phenol] {TGSA}	11/20	ChemSet-2		100		7 [19]
7704349	Sulfur	11/20	ChemSet-2		100		7 [19]
7446095	Sulfur dioxide	11/20	ChemSet-1		100		7
	* Sulfuric acid and oleum		e				
8014957	Oleum	11/06	e		100		7
7446719	Sulfur trioxide	11/06	e		100		7
7664939	Sulfuric acid	06/91	e		2	1	
5714227	Sulfur pentafluoride	11/20	ChemSet-2		0.01		7
7783600	Sulfur tetrafluoride	11/20	ChemSet-2		0.01		7 [19]
2699798	Sulfuryl fluoride	11/20	ChemSet-1		10		7
54965241	Tamoxifen citrate [POM]	09/90	e	c	50	1 2 3 4 5	
100210	Terephthalic acid	06/91	e		100	1	
7783804	Tellurium hexafluoride	11/20	ChemSet-2		100		7 [19]
2593159	Terrazole	11/20	ChemSet-2	c	50	4	
79947	Tetrabromobisphenol A {TBBPA} (see Brominated and Chlorinated Organic Compounds Used as Flame Retardants)	11/20	(see cross-ref)	c	50	3 4	

**Appendix A-I  
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Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Effective Phase [Note 23]	Carcinogen [Note 4]	Applicable Degree of Accuracy (lb/yr) [Note 5]	Source List(s) [Note 6]	Other Note(s)
79276	1,1,2,2-Tetrabromoethane	11/20	ChemSet-2		100		7
632791	Tetrabromophthalic anhydride	11/20	ChemSet-2		100		7
14047097	3,3',4,4'-Tetrachloroazobenzene	11/20	ChemSet-2	c	50	3	
634662	1,2,3,4-Tetrachlorobenzene (see Chlorobenzenes)	11/20	(see cross-ref)		100		7
95943	1,2,4,5-Tetrachlorobenzene (see Chlorobenzenes)	11/20	(see cross-ref)		10		7
12408105	Tetrachlorobenzene (mixed isomers) (see Chlorobenzenes)	11/20	(see cross-ref)		100		7
15721025	2,2',5,5'-Tetrachlorobenzidine	11/20	ChemSet-1		0.0001		7
630206	1,1,1,2-Tetrachloroethane	11/20	ChemSet-1	c	50	3 4	
79345	1,1,2,2-Tetrachloroethane	09/90	e	c	1	1 2 3 4	
	- Tetrachlorophenols (see Chlorophenols)		e				
117088	Tetrachlorophthalic-anhydride	11/20	ChemSet-2		20		7
112607	Tetraethylene glycol	11/20	ChemSet-2		100		7 [7]
78002	Tetraethyllead (see Lead (other than inorganic): Tetraethyllead)	11/20	(see cross-ref)		50		7
116143	Tetrafluoroethylene	11/20	ChemSet-2	c	50	3 4 5	
100505	Tetrahydrobenzaldehyde	11/20	ChemSet-2		100		7
1191	Δ9-Tetrahydrocannabinol {Δ9-THC}	11/20	ChemSet-2		100	4	
109999	Tetrahydrofuran	11/20	ChemSet-2	c	50	3	7
119642	1,2,3,4-Tetrahydronaphthalene {Tetralin}	11/20	ChemSet-2		100		7
85438	Tetrahydrophthalic anhydride	11/20	ChemSet-2		100		7
1192	Tetrakis(hydroxymethyl)phosphonium salts including but not limited to:	11/20	ChemSet-2		100		7
124641	Tetrakis(hydroxymethyl)phosphonium chloride	11/20	ChemSet-2		100		7 [19]
55566308	Tetrakis(hydroxymethyl)phosphonium sulfate	11/20	ChemSet-2		100		7
110601	Tetramethylene-diamine	11/20	ChemSet-2		100		7
110189	Tetramethylethylenediamine	11/20	ChemSet-2		100		7
3333526	Tetramethyl succinonitrile	11/20	ChemSet-2		100		7
7440280	Thallium	06/91	e		100		7 [7]
	* Thallium compounds	06/91	e	c	100		7 [19]
148798	Thiabenzazole {TBZ}	11/20	ChemSet-2		100		7
62555	Thioacetamide		e	c	0.01	3 4 5	
96695	4,4'-Thiobis(6-tert-butyl-m-cresol)	11/20	ChemSet-2		100		7
68111	Thioglycolic acid and salts	11/20	ChemSet-2		100		7
7719097	Thionyl chloride	11/20	ChemSet-2		0.1		7 [19]
23564058	Thiophanate methyl	11/20	ChemSet-2		1	4	
62566	Thiourea		e	c	0.1	1 4 5	[19]
137268	Thiram	11/20	ChemSet-2		1		7
7440291	Thorium-232 and its decay products	11/20	ChemSet-2	c	50	3	[7]
7440315	Tin	11/20	ChemSet-2		100		7 [7]
	* Tin compounds including but not limited to:	11/20	ChemSet-2		100		7 [7]
50926119	Indium tin oxide (see Indium and compounds)	11/20	(see cross-ref)	c	50	3	[7]
1332292	Tin Oxide	11/20	ChemSet-2		100		7 [7]
13463677	Titanium dioxide	11/20	ChemSet-2	c	50	3 4 6	
7550450	Titanium tetrachloride	06/91	e		100	1 2	
108883	Toluene		e		200	1 2 4 6	
	- 2,4-Toluenediamine (see 2,4-Diaminotoluene)		e				

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Substances for Which Emissions Must Be Quantified**

<b>Emittent ID</b> [Note 1]	<b>Substance Name</b> [Note 2]	<b>Add Date</b> [Note 3]	<b>Effective Phase</b> [Note 23]	<b>Carcinogen</b> [Note 4]	<b>Applicable Degree of Accuracy (lb/yr)</b> [Note 5]	<b>Source List(s)</b> [Note 6]	<b>Other Note(s)</b>
26471625	Toluene diisocyanates including but not limited to:	06/91	e	c	0.1	1 3 4	
584849	Toluene-2,4-diisocyanate		e	c	0.1	1 2 3 4 5	
91087	Toluene-2,6-diisocyanate		e	c	0.1	1 2 3 4 5	
104154	Toluene sulfonic acids	11/20	ChemSet-2		100		7
108441	m-Toluidine	11/20	ChemSet-2		100		7
95534	o-Toluidine		e	c	10	1 2 3 4 5	
8001352	Toxaphene (Polychlorinated camphenes)		e	c	100	1 2 3 4 5	[19]
43121433	Triadimefon	11/20	ChemSet-2		100	4	
118796	2,4,6-Tribromophenol (see Brominated and Chlorinated Organic Compounds used as Flame Retardants)	11/20	(see cross-ref)		100		7 [19]
78488	Tribufos (see S,S,S-Tributyl phosphorotrithioate)	11/20	(see cross-ref)	c	2	4	[20]
126738	Tributyl phosphate (see Phosphorus compounds: Tributyl phosphate)	11/20	e		100	2	[7]
2155706	Tributyltin methacrylate	11/20	ChemSet-2		100	4	
76039	Trichloroacetic acid	11/20	ChemSet-2	c	50	3 4	
634935	2,4,6-Trichloroaniline	11/20	ChemSet-2		5		7
87616	1,2,3-Trichlorobenzene (see Chlorobenzenes)	11/20	(see cross-ref)		100		7
	- 1,1,1-Trichloroethane (see Methyl chloroform)		e				
79005	1,1,2-Trichloroethane (Vinyl trichloride)	06/91	e	c	1	1 2 4	
79016	Trichloroethylene (TCE)		e	c	20	1 2 3 4	
	- 2,4,6-Trichlorophenol (see Chlorophenols)		e				[19]
136323	2,4,5-Trichlorophenol sodium salt (see Chlorophenols)	11/20	(see cross-ref)		100		7
96184	1,2,3-Trichloropropane	07/96	e	c	200	3 4	7
101202	Triclocarban	11/20	ChemSet-2		100		7
3380345	Triclosan (see Chlorophenols)	11/20	(see cross-ref)		100		7
38260014	Trientine hydrochloride	11/20	ChemSet-2		100	4	
121448	Triethylamine	06/91	e		20	1 2	
112243	Triethylenetetramine	11/20	ChemSet-2		100		6 [19]
14151721	Trifloxystrobin	11/20	ChemSet-2		100		7
1582098	Trifluralin	06/91	e		100	1 2	
552307	Trimellitic anhydride	11/20	ChemSet-2		0.1		7
75503	Trimethylamine	11/20	ChemSet-2		100		7
88051	2,4,6-Trimethylaniline	11/20	ChemSet-2		100		7
137177	2,4,5-Trimethylaniline and its strong acid salts	11/20	ChemSet-1	c	50	4	
25551137	Trimethylbenzenes including but not limited to:	11/06	e		10	1	
526738	1,2,3-Trimethylbenzene	11/20	ChemSet-1		10		7
95636	1,2,4-Trimethylbenzene	06/91	e		5	1	
108678	1,3,5-Trimethylbenzene	11/20	ChemSet-1		10		6
2245387	2,3,5-Trimethylnaphthalene {1,6,7-Trimethylnaphthalene} [Methyl-PAH, POM] (see PAH, Methyl-PAH)	11/20	(see cross-ref)		0.5		7
15625895	Trimethylolpropane triacrylate, technical grade	11/20	ChemSet-2	c	50	3	
540841	2,2,4-Trimethylpentane	06/91	e		100	1 2	
121459	Trimethyl phosphite	11/20	ChemSet-2		100		7
	1207 TRIM VX	11/20	ChemSet-2	c	50	4	
118967	2,4,6-Trinitrotoluene (see Nitrotoluenes)	11/20	(see cross-ref)	c	0.5	4	[19]
545551	Tris(1-aziridinyl)phosphine oxide	11/20	ChemSet-2		100		7

**Appendix A-I  
Substances for Which Emissions Must Be Quantified**

Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Effective Phase [Note 23]	Carcinogen [Note 4]	Applicable Degree of Accuracy (lb/yr) [Note 5]	Source List(s) [Note 6]	Other Note(s)
115968	Tris(2-chloroethyl) phosphate {TCEP} (see also Brominated and Chlorinated Organic Compounds used as Flame Retardants and Organophosphate Flame Retardants)	11/20	(see cross-ref)	c	50	4	
38571732	1,2,3-Tris(chloromethoxy)propane	11/20	ChemSet-2		50	7	[21]
13674845	Tris(1-chloro-2-propyl)phosphate {TCPP} (see Brominated and Chlorinated Organic Compounds Used as Flame Retardants and Organophosphate Flame Retardants)	11/20	(see cross-ref)		100	7	
13674878	Tris(1,3-dichloro-2-propyl) phosphate {TCDP} {TDCPP} (see Brominated and Chlorinated Organic Compounds Used as Flame Retardants and Organophosphate Flame Retardants)	11/20	(see cross-ref)	c	10	4	[7]
7440611	Uranium and compounds	11/20	ChemSet-1		100	7	
9011056	Urea-formaldehyde {UF}	11/20	ChemSet-1		100	6	
51796	Urethane (Ethyl carbamate)		e	c	0.1	1 2 3 4 5	[17]
7440622	Vanadium (fume or dust)	06/91	e		10	7	
1314621	Vanadium pentoxide	11/06	e	c	10	2 3 4	[19]
50471448	Vinclozolin	11/20	ChemSet-2	c	50	4	
108054	Vinyl acetate	06/91	e	c	50	1 2 3	
593602	Vinyl bromide		e	c	20	1 2 3 4	
75014	Vinyl chloride		e	c	0.5	1 2 3 4 5	
9003229	Vinyl chloride-vinyl acetate copolymers (must report the individual monomer components)	11/20	ExistGrp		100	7	
100403	4-Vinylcyclohexene	07/96	e	c	5	3 4	
75025	Vinyl fluoride	07/96	e	c	200	3 4	
75354	Vinylidene chloride		e	c	20	1 2 3 4	
9011067	Vinylidene chloride-vinyl chloride copolymers (must report the individual monomer components)	11/20	ExistGrp		100	7	
106876	Vinyl cyclohexene dioxide {4-Vinyl-1-cyclohexene diepoxide}	09/90	e	c	50	3 4	
88120	N-Vinyl-2-pyrrolidone	11/20	ChemSet-2		100	7	
25013154	Vinyl toluene	11/20	ChemSet-2		100	7	
13983170	Wollastonite {Calcium silicate naturally occurring as Wollastonite}	11/20	ChemSet-2		100	7	
1206	Wood preservatives (containing arsenic and chromate)	09/89	e		100	6	
90471	Xanthone [PAH-Derivative/Related, POM]	11/20	ChemSet-2		100	7	
1330207	Xylenes (mixed) including:		e		200	1 2	6
108383	m-Xylene	06/91	e		200	1 2	
95476	o-Xylene	06/91	e		200	1 2	
106423	p-Xylene	06/91	e		200	1 2	
1300738	Xylidine	11/20	ChemSet-2		100	7	
95681	2,4-Xylidine	11/20	ChemSet-2		100	7	
95783	2,5-Xylidine	11/20	ChemSet-2		100	7	
7440655	Yttrium and compounds	11/20	ChemSet-2		100	7	[19]
315184	Zectran (Mexacarbate)	11/20	ChemSet-2		100	7	
7440666	Zinc		e		2	2	[7]
	* Zinc compounds including but not limited to:	09/89	e		2	1 2	[7]
1314132	Zinc oxide		e		2	2	[19]
137304	Ziram	11/20	ChemSet-2		50	7	
	[22] And the following functional groups:						[22]
	[22] ISOCYANATE RELATED: Any chemical containing the Isocyanate functional group	11/20	-			7	[22]

**Appendix A-I  
Substances for Which Emissions Must Be Quantified**

<b>Emittent ID</b> [Note 1]	<b>Substance Name</b> [Note 2]	<b>Add Date</b> [Note 3]	<b>Effective Phase</b> [Note 23]	<b>Carcinogen</b> [Note 4]	<b>Applicable Degree of Accuracy (lb/yr)</b> [Note 5]	<b>Source List(s)</b> [Note 6]	<b>Other Note(s)</b>
[22]	Any chemical containing a single Isocyanate functional group	11/20	ChemSet-2		1	7	[22]
[22]	Any chemical containing two or more Isocyanate functional groups	11/20	ChemSet-1		0.1	7	[22]
[22]	PAH RELATED: Derivatives and substituted versions of polycyclic aromatic compounds that contain any halogen atom (chlorine, bromine, fluorine, or iodine)	11/20	ChemSet-2		0.5	7	[22]
[22]	PFAS RELATED: Substances containing any of the following functional groups of poly- and per-fluorinated chemicals	11/20	-			7	[22]
[22]	Perfluoroalkyl carbonyl, carboxylic acid, and alcohol compounds	11/20	ChemSet-2		100	7	[22]
[22]	Perfluoroalkyl sulfonyl, sulfonic acid, sulfonate and sulfonamide compounds	11/20	ChemSet-2		100	7	[22]
[22]	Perfluoroalkyl phosphate compounds	11/20	ChemSet-2		100	7	[22]
[22]	Fluorotelomer-related compounds	11/20	ChemSet-1		100	7	[22]
[22]	Per- and polyfluoroalkyl ether-based compounds	11/20	ChemSet-2		100	7	[22]
[22]	Other PFAA precursors and related compounds - perfluoroalkyl ones	11/20	ChemSet-2		100	7	[22]
[22]	Other PFAA precursors or related compounds - semifluorinated	11/20	ChemSet-2		100	7	[22]
[22]	Fluoropolymers	11/20	ChemSet-2		100	7	[22]

## **APPENDIX A-II**

**SUBSTANCES FOR WHICH PRODUCTION, USE,  
OR OTHER PRESENCE MUST BE REPORTED**

**Appendix A-II**  
**Substances for Which Production, Use, or Other Presence Must Be Reported**

Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Carcinogen [Note 4]	Source List(s) [Note 6]	Other Note(s)
26148685	A-alpha-C {2-Amino-9H-pyrido[2,3-b]indole}	09/89	c	3 4	[18]
34256821	Acetochlor	09/89	c	4	
62476599	Acifluorfen [POM]	09/90	c	1 2 4	
3688537	AF-2		c	3 4	
1402682	Aflatoxins		c	3 4 5	
15972608	Alachlor	09/89	c	4	
309002	Aldrin	09/89	c	3 4	
107186	Allyl alcohol	06/91			7
60093	p-Aminoazobenzene {4-Aminoazobenzene} [POM]		c	1 2 3 4	
97563	o-Aminoazotoluene [POM]		c	1 2 3 4 5	
6109973	3-Amino-9-ethylcarbazole hydrochloride [POM]	09/89	c	1 2 4 5	
125848	Aminoglutethimide	09/90		4	
82280	1-Amino-2-methylanthraquinone [PAH-Derivative, POM]		c	1 2 4 5	
68006837	2-Amino-3-methyl-9H-pyrido(2,3-b) indole {MeA-alpha-C}	09/89	c	3 4	
712685	2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole		c	3 4	
134292	o-Anisidine hydrochloride		c	4 5	
104949	p-Anisidine	06/91			7
140578	Aramite		c	3 4	
492808	Auramine [POM]		c	1 2 3 4 5	
446866	Azathioprine		c	1 2 3 4 5	
103333	Azobenzene [POM]	09/90	c	1 2 4	
98873	Benzal chloride	06/91		3	7
55210	Benzamide	06/91			7
1694093	Benzyl violet 4B [POM]		c	1 2 3 4	
1025	Betel quid with tobacco		c	3 4	
494031	N-N-Bis(2-chloroethyl)-2-naphthylamine {Chlornaphazine} [PAH-Derivative, POM]		c	1 2 3 4 5	
1030	Bitumens, extracts of steam-refined and air-refined bitumens		c	3 4	
1035	Bleomycins		c	3	
75274	Bromodichloromethane	09/90	c	3 4	
1689845	Bromoxynil	06/91		4	
25013165	Butylated hydroxyanisole {BHA}		c	3 4	

**Appendix A-II  
Substances for Which Production, Use, or Other Presence Must Be Reported**

<b>Emittent ID</b> [Note 1]	<b>Substance Name</b> [Note 2]	<b>Add Date</b> [Note 3]	<b>Carcinogen</b> [Note 4]	<b>Source List(s)</b> [Note 6]	<b>Other Note(s)</b>
128370	Butylated hydroxytoluene {BHT}	11/20			7
123728	Butyraldehyde	06/91			7
3068880	beta-Butyrolactone		c	3 4	
630080	Carbon monoxide	09/89		4	
143500	Chlordecone {Kepone}		c	3 4	
6164983	Chlordimeform	09/89	c	4	
593704	Chlorofluoromethane {Freon 31}	11/20			7
563473	3-Chloro-2-methylpropene	09/89	c	3 4 5	
1065	Chlorophenoxy herbicides		c	3	
1059	p-Chloro-o-toluidine (strong acid salts)	06/91	c	3 4	
75887	2-Chloro-1,1,1-trifluoroethane {HCFC-133a}	11/20			7
4680788	C. I. Acid Green 3 [POM] Note: "C.I." means "color index"	06/91		1 2	7
6459945	C.I. Acid Red 114	11/20	c	3	
569642	C. I. Basic Green 4 [POM]	06/91		1 2	7
989388	C. I. Basic Red 1 [POM]	06/91		1 2	7
569619	C. I. Basic Red 9 monohydrochloride [POM]	09/89	c	1 2 4 5	
2429745	C.I. Direct Blue 15	11/20	c	3	
2832408	C. I. Disperse Yellow 3 [POM]	06/91	c	1 2 4	7
87296	Cinnamyl anthranilate [POM]	09/89	c	1 2 4 5	
6358538	Citrus Red No. 2 [POM]		c	1 2 3 4	
21725462	Cyanazine	09/90		4	
14901087	Cycasin		c	3 4	
108918	Cyclohexylamine	11/20			7
13121705	Cyhexatin	09/89		4 5	
3468631	D and C Orange No. 17 [PAH-Derivative, POM]	09/90	c	1 2 4	
81889	D and C Red No. 19 [POM]	09/90	c	1 2 4	
2092560	D and C Red No. 8 [PAH-Derivative, POM]	06/91	c	1 2 4	
5160021	D and C Red No. 9 [PAH-Derivative, POM]	09/90	c	1 2 4	
1596845	Daminozide	09/90	c	4	
613354	N,N'-Diacetylbenzidine [POM]		c	1 2 3 4	
2303164	Diallate	06/91			7



**Appendix A-II**  
**Substances for Which Production, Use, or Other Presence Must Be Reported**

Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Carcinogen [Note 4]	Source List(s) [Note 6]	Other Note(s)
39156417	2,4-Diaminoanisole sulfate		c	4 5	
101804	4,4'-Diaminodiphenyl ether [POM]		c	1 2 3 4 5	
28434868	3,3'-Dichloro-4,4'-diaminodiphenyl ether [POM]	09/89	c	1 2 3 4	
72548	Dichlorodiphenyldichloroethane {DDD} [POM]	09/89	c	1 2 4	
78886	2,3-Dichloropropene	06/91			7
60571	Dieldrin	09/89	c	3 4	
1464535	Diepoxybutane		c	3 4 5	
1615801	1,2-Diethylhydrazine		c	3 4	
101906	Diglycidyl resorcinol ether {DGRE}		c	3 4 5	
94586	Dihydrosafrole		c	3 4	
20325400	3,3'-Dimethoxybenzidine dihydrochloride [POM]	06/91	c	1 2 4	
55738540	trans-2-[(Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)vinyl]-1,3,4-oxadiazol		c	3 4	
540738	1,2-Dimethylhydrazine		c	3 4	
105679	2,4-Dimethylphenol {2,4-Xylenol}	06/91			7
513371	Dimethylvinylchloride {DMVC}	09/89	c	4 5	
25154545	Dinitrobenzenes (mixtures of) including:	09/90		4	7
99650	m-Dinitrobenzene	06/91		4	7
528290	o-Dinitrobenzene	06/91		4	7
100254	p-Dinitrobenzene	06/91			7
39300453	Dinocap	09/90		4	
88857	Dinoseb	09/89		4	
117840	n-Dioctyl phthalate	06/91			7
2475458	Disperse Blue 1 [PAH-Derivative, POM]	06/91	c	1 2 3 4	
541413	Ethyl chloroformate	06/91			7
62500	Ethyl methanesulfonate		c	3 4	
2164172	Fluometuron	06/91			7
133073	Folpet	09/89	c	4	
3570750	2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazole		c	3 4	
60568050	Furmecyclox	09/90	c	4	
67730114	Glu-P-1 {2-Amino-6-methyldipyrido[1,2-a:3',2'-d]imidazole}		c	3 4	
67730103	Glu-P-2 {2-Aminodipyrido[1,2-a:3',2'-d]imidazole}		c	3 4	

**Appendix A-II**  
**Substances for Which Production, Use, or Other Presence Must Be Reported**

Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Carcinogen [Note 4]	Source List(s) [Note 6]	Other Note(s)
765344	Glycidaldehyde		c	3 4	
556525	Glycidol	09/90	c	3 4	
16568028	Gyromitrin {Acetaldehyde methylformylhydrazone}		c	4	
2784943	HC Blue 1	09/89	c	3 4 5	
1024573	Heptachlor epoxide	09/89	c	4	
1335871	Hexachloronaphthalene [PAH-Derivative, POM]	06/91		1 2	7
1122	2,4-Hexadienal (89% trans, trans isomer; 11% cis, trans isomer)	11/20	c	4	
10034932	Hydrazine sulfate		c	4 5	
76180966	IQ {2-Amino-3-methylimidazo[4,5-f]quinoline}		c	3 4	
78842	Isobutyraldehyde	06/91			7
120581	Isosafrole	09/90	c	4	
4759482	Isotretinoin			4	
77501634	Lactofen [POM]	09/89	c	1 2 4	
1131	Lubricant base oils and derived products, specifically vacuum distillates, acid treated oils, aromatic oils, mildly solvent-refined oils, mildly hydrotreated-oils and used engine oils.	09/89	c	3 4 5	
8018017	Mancozeb	09/90	c	4	
12427382	Maneb	09/90	c	4	
59052	Methotrexate	09/89		4	
590965	Methylazoxymethanol	09/90	c	4	
592621	Methylazoxymethanol acetate	09/89	c	3 4	
101611	4,4'-Methylene bis (N,N-dimethyl) benzenamine [POM]		c	1 2 4 5	
838880	4,4'-Methylene bis(2-methylaniline) [POM]	09/89	c	1 2 3 4	
74953	Methylene bromide	06/91			7
66273	Methyl methanesulfonate		c	3 4	
129157	2-Methyl-1-nitroanthraquinone (uncertain purity) [PAH-Derivative, POM]		c	1 2 3 4	
70257	N-Methyl-N'-nitro-N-nitrosoguanidine		c	3 4	
	- N-Methyl-N-nitrosourethane (see N-Nitroso-N-methylurethane)				
924425	N-Methyloacrylamide	09/90	c	4	
9006422	Metiram	09/90		4	
1140	Mineral oils (untreated and mildly treated oils; and those used in occupations such as mulespinning, metal machining, and jute processing).		c	3 4 5	
2385855	Mirex		c	3 4 5	

**Appendix A-II  
Substances for Which Production, Use, or Other Presence Must Be Reported**

<b>Emittent ID</b> [Note 1]	<b>Substance Name</b> [Note 2]	<b>Add Date</b> [Note 3]	<b>Carcinogen</b> [Note 4]	<b>Source List(s)</b> [Note 6]	<b>Other Note(s)</b>
315220	Monocrotaline		c	3 4	
505602	Mustard gas {Sulfur mustard}		c	3 4 5	
90153	alpha-Naphthol	11/20			7
134327	1-Naphthylamine [PAH-Derivative, POM]	09/90	c	1 2 4	
91598	2-Naphthylamine [PAH-Derivative, POM]		c	1 2 3 4 5	
84866	1,4-Naphthylamine sulfonic acid	11/20			7
54115	Nicotine	09/90		4	
1148	Nitrilotriacetic acid (salts) including but not limited to:	06/91	c	3	
18662538	Nitrilotriacetic acid, trisodium salt monohydrate	06/91	c	3 4	
99592	5-Nitro-o-anisidine		c	4 5	
1836755	Nitrofen (technical grade)		c	3 4 5	
51752	Nitrogen mustard {Mechlorethamine}	09/89	c	3 4 5	
55867	Nitrogen mustard hydrochloride	06/91	c	4 5	
55630	Nitroglycerin	06/91			7
88755	2-Nitrophenol	06/91			7
759739	N-Nitroso-N-ethylurea	09/89	c	4 5	
60153493	3-(N-Nitrosomethylamino)propionitrile	09/89	c	3 4	
64091914	4-(N-Nitrosomethylamino)-1-(3-pyridyl)-1-butanone {NNK}		c	3 4	
615532	N-Nitroso-N-methylurethane		c	3 4	
4549400	N-Nitrosomethylvinylamine		c	3 4 5	
16543558	N-Nitrososarcosine		c	3 4 5	
13256229	N-Nitrososarcosine		c	3 4 5	
303479	Ochratoxin A [POM]	09/90	c	1 2 3 4	
2234131	Octachloronaphthalene [PAH-Derivative, POM]	06/91		1 2	7
2646175	Oil Orange SS [PAH-Derivative, POM]		c	1 2 3 4	
20816120	Osmium tetroxide	06/91			7
794934	Panfuran S {Dihydroxymethylfuratrizine}		c	3 4	
626175	m-Phthalodinitrile	11/20			7
122601	Phenyl glycidyl ether	09/90	c	3 4	
57410	Phenytoin [POM]		c	1 2 3 4 5	
88891	Picric acid	06/91			7

**Appendix A-II**  
**Substances for Which Production, Use, or Other Presence Must Be Reported**

Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Carcinogen [Note 4]	Source List(s) [Note 6]	Other Note(s)
53973981	Polygeenan	09/89	c	4	
3761533	Ponceau MX [PAH-Derivative, POM]		c	1 2 3 4	
3564098	Ponceau 3R [PAH-Derivative, POM]		c	1 2 3 4	
94597	Safrole		c	3 4 5	
132274	Sodium o-phenylphenate [POM]		c	1 2 3 4	
128449	Sodium saccharin	09/89	c	4	
1185	Soots		c	3 4	
646297	Stearate	11/20			7
10048132	Sterigmatocystin [POM]		c	1 2 3 4	
95067	Sulfallate		c	3 4 5	
1335882	Tetrachloronaphthalene	11/20			7
5216251	p-alpha,alpha,alpha-Tetrachlorotoluene	09/90	c	4	
961115	Tetrachlorvinphos	06/91	c	4	7
509148	Tetranitromethane	09/90	c	3 4	
139651	4,4'-Thiodianiline [POM]		c	1 2 3 4	
1314201	Thorium dioxide		c	4 5	
1200	Tobacco products, smokeless		c	3 4	
1205	alpha-chlorinated Toluenes		c	3	
636215	o-Toluidine hydrochloride		c	4 5	
106490	p-Toluidine	09/90	c	4	
52686	Trichlorfon	06/91			7
68768	Tris(aziridiny)-p-benzoquinone {Triaziquone}	09/90	c	4	
52244	Tris(1-aziridiny) phosphine sulfide {Thiotepa}		c	3 4 5	
62450060	Trp-P-1 {3-Amino-1,4-dimethyl-5H-pyrido[4,3-b]indole}		c	3 4	
62450071	Trp-P-2 {3-Amino-1-methyl-5H-pyrido[4,3-b]indole}		c	3 4	
72571	Trypan blue [PAH-Derivative, POM]		c	1 2 3 4	
75387	Vinylidene fluoride	11/20			7
81812	Warfarin [POM]			1 2 4	
87627	2,6-Xylidene	06/91		3 4	
12122677	Zineb	09/90	c	4	

## **APPENDIX A-III**

**SUBSTANCES WHICH NEED NOT BE REPORTED  
UNLESS MANUFACTURED BY THE FACILITY**

**Appendix A-III**  
**Substances Which Need Not Be Reported Unless Manufactured By the Facility**

Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Carcinogen [Note 4]	Source List(s) [Note 6]	Other Note(s)
154229182	Abiraterone acetate	11/20		4	
59665	Acetazolamide	11/20		4	
546883	Acetohydroxamic acid	09/90		4	
59277893	Aciclovir	11/20			7
50760	Actinomycin D	09/90	c	4	
23214928	Adriamycin [PAH-Derivative, POM]		c	1 2 3 4 5	
28981977	Alprazolam [POM]	09/90		1 2 4	
645056	Altretamine	11/20		4	
665667	Amantadine hydrochloride	11/20		4	
39831555	Amikacin sulfate	09/90		4	
	-- Aminoglycosides	11/20		4	
105650235	2-Amino-1-methyl-6-phenylimidazo[4,5-b]pyridine {PhIP}	11/20	c	3	
121664	2-Amino-5-nitrothiazole	11/20			7
54626	Aminopterin			4	
19774824	Amiodarone hydrochloride	11/20		4	
14028445	Amoxapine	11/20		4	
1005	Analgesic mixtures containing phenacetin		c	3 4 5	
1010	Androgenic (anabolic) steroids including but not limited to:		c	3 4	
58184	Methyltestosterone	09/90		4	
434071	Oxymetholone		c	4 5	
58220	Testosterone and its esters including but not limited to:	09/89		4	
315377	Testosterone enanthate	09/90		4	
63058	Androstenedione	11/20	c	4	
	-- Angiotensin converting enzyme (ACE) inhibitors	11/20		4	
117373	Anisindione	11/20		4	
50782	Aspirin	06/91		4	
29122687	Atenolol	11/20		4	
34031328	Auranofin	11/20		4	
71751412	Avermectin B1	11/20		4	
320672	Azacitidine	11/20	c	3 4 5	
115026	Azaserine		c	3 4	

**Appendix A-III**  
**Substances Which Need Not Be Reported Unless Manufactured By the Facility**

Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Carcinogen [Note 4]	Source List(s) [Note 6]	Other Note(s)
800248	Aziridyl benzoquinone	11/20			7
5534098	Beclomethasone dipropionate	11/20		4	
76937	Benzilic acid	11/20		2	
	--- Benzodiazepines	11/20		4	
579442	Benzoin	11/20		2	
5411223	Benzphetamine hydrochloride [POM]	09/90		1 2 4	
120514	Benzyl benzoate	11/20		2	
216974753	Bevacizumab	11/20		4	
154938	Bischloroethyl nitrosourea		c	3 4	
143817	Butabarbital sodium	11/20		4	
55981	1,4-Butanediol dimethanesulfonate {Busulfan/Myleran}		c	3 4 5	
298464	Carbamazepine	11/20		4	
41575944	Carboplatin	09/90		4	
474259	Chenodiol	09/90		4	
302170	Chloral hydrate	11/20	c	3 4	
305033	Chlorambucil		c	3 4 5	
56757	Chloramphenicol		c	3 4	
982570	Chloramphenicol sodium succinate	11/20	c	4	
1620219	Chlorcyclizine hydrochloride [POM]			1 2 4	
58253	Chlordiazepoxide	11/20		4	
438415	Chlordiazepoxide hydrochloride	11/20		4	
13010474	1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea {CCNU}		c	3 4 5	
13909096	1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea {Methyl CCNU}		c	3 4	
127004	1-Chloro-2-propanol	11/20			7
54057	Chloroquine	11/20			7
569573	Chlorotrianisene	11/20	c	4	
59865133	Ciclosporin (see Cyclosporine)	11/20	c	3 4	
113852372	Cidofovir	11/20	c	4	
51481619	Cimetidine	11/20			7
15663271	Cisplatin		c	3 4	
4291638	Cladribine	11/20		4	

**Appendix A-III**  
**Substances Which Need Not Be Reported Unless Manufactured By the Facility**

Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Carcinogen [Note 4]	Source List(s) [Note 6]	Other Note(s)
81103119	Clarithromycin	11/20		4	
637070	Clofibrate	11/20	c	4	
50419	Clomiphene citrate [POM]	09/90		1 2 4	
2971906	Clopidol	11/20			7
57109907	Clorazepate dipotassium	11/20		4	
64868	Colchicine	11/20		4	
50180	Cyclophosphamide		c	3 4 5	
6055192	Cyclophosphamide (hydrated)	11/20	c	3 4	
59865133	Cyclosporine	11/20	c	3 4	
147944	Cytarabine	09/89		4	
21739913	Cytembena	11/20	c	4	
4342034	Dacarbazine		c	3 4 5	
17230885	Danazol	09/90		4	
80080	Dapsone	11/20			7
20830813	Daunomycin [PAH-Derivative, POM]		c	1 2 3 4	
23541506	Daunorubicin hydrochloride [PAH-Derivative, POM]	09/90		1 2 4	
143102	1-Decanethiol	11/20			7
52918635	Deltamethrin	11/20			7
439145	Diazepam	11/20		4	
364987	Diazoxide	11/20		4	
120978	Dichlorophenamide	11/20		4	
66762	Dicumarol	11/20		4	
69655056	Didanosine	11/20			7
84173	Dienestrol [POM]	09/90	c	1 2 4	
22494424	Diflunisal	11/20		4	
20830755	Digoxin	11/20	c	3	
6190392	Dihydroergotamine mesylate	11/20		4	
33286225	Diltiazem hydrochloride	11/20		4	
5989275	d-Limonene	11/20			7
40762150	Doxefazepam	11/20			7
25316409	Doxorubicin hydrochloride (Adriamycin)	11/20	c	4	



**Appendix A-III**  
**Substances Which Need Not Be Reported Unless Manufactured By the Facility**

Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Carcinogen [Note 4]	Source List(s) [Note 6]	Other Note(s)
	564250 Doxycycline	09/90		4	
	94088854 Doxycycline calcium (internal use)	11/20		4	
	24390145 Doxycycline hyclate (internal use)	11/20		4	
	17086281 Doxycycline monohydrate (internal use)	11/20		4	
	562107 Doxylamine succinate	11/20			7
	82413205 Droloxifene	11/20			7
	379793 Ergotamine tartrate [POM]	09/90		1 2 4	
	29975164 Estazolam	11/20			7
	1095 Estrogens, non-steroidal including but not limited to:		c	3 5	
	56531 Diethylstilbestrol [POM]		c	1 2 3 4 5	
	1100 Estrogens, steroidal including but not limited to:		c	3 4 5	
	1068 Conjugated estrogens	09/90	c	4	
	50282 Estradiol 17 beta		c	4 5	
	53167 Estrone		c	4 5	
	57636 Ethinyl estradiol		c	4 5	
	72333 Mestranol		c	4 5	
	7280377 Estropipate	11/20	c	4	
	536334 Ethionamide	11/20		4	
	9004573 Ethylcellulose	11/20		2	
	41340254 Etodolac	11/20		4	
	33419420 Etoposide [POM]	09/90	c	2 3 4	
	54350480 Etreinate			4	
	121181531 Filgrastim	11/20		4	
	3385033 Flunisolide	11/20		4	
	51218 Fluorouracil	09/89		4	
	76437 Fluoxymesterone	09/90		4	
	1172185 Flurazepam hydrochloride	11/20		4	
	5104494 Flurbiprofen	11/20		4	
	13311847 Flutamide	09/90		4	
	67458 Furazolidone	09/90	c	4	
	54319 Furosemide (Frusemide)	11/20			7

**Appendix A-III**  
**Substances Which Need Not Be Reported Unless Manufactured By the Facility**

Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Carcinogen [Note 4]	Source List(s) [Note 6]	Other Note(s)
82410320	Ganciclovir	11/20	c	4	
107910758	Ganciclovir sodium	11/20		4	
25812300	Gemfibrozil	11/20	c	4	
1112	Goldenseal root powder	11/20	c	3 4	
65807025	Goserelin acetate	11/20		4	
126078	Griseofulvin		c	3 4	
23092173	Halazepam [POM]	09/90		1 2 4	
66852548	Halobetasol propionate	11/20		4	
52868	Haloperidol	11/20		4	
106694	1,2,6-Hexanetriol	11/20		2	
220810264	Histrelin acetate	11/20		4	
86544	Hydralazine	11/20			7
67485294	Hydramethylnon	11/20		4	
127071	Hydroxyurea	11/20		4	
57852570	Idarubicin hydrochloride	11/20		4	
3778732	Ifosfamide	09/90		4	
9004664	Iron dextran complex		c	3 4 5	
9000388	Kava extract	11/20	c	3	
501304	Kojic acid	11/20			7
303344	Lasiocarpine	09/89	c	3 4	
74381536	Leuprolide acetate	11/20		4	
59927	Levodopa	11/20		4	
554132	Lithium carbonate	06/91		4	
919164	Lithium citrate	06/91		4	
846491	Lorazepam [POM]	09/90		1 2 4	
75330755	Lovastatin	11/20		4	
52766	Lynestrenol	11/20	c	4	
551746	Mannomustine dihydrochloride	11/20			7
31431397	Mebendazole	11/20		4	
595335	Megestrol acetate	06/91		4	
148823	Melphalan		c	3 4 5	

**Appendix A-III**  
**Substances Which Need Not Be Reported Unless Manufactured By the Facility**

Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Carcinogen [Note 4]	Source List(s) [Note 6]	Other Note(s)
9002680	Menotropins	09/90		4	
57534	Meprobamate	11/20		4	
6112761	Mercaptopurine	09/90		4	
61574	6-Mercaptopurine	11/20	c	3	
531760	Merphalan	09/89	c	3 4	
3963959	Methacycline hydrochloride	06/91		4	
20354261	Methazole	11/20		4	
60560	Methimazole	09/90		4	
15475566	Methotrexate sodium	09/90		4	
484208	5-Methoxypsoralen		c	3	
56042	Methylthiouracil		c	3 4	
443481	Metronidazole		c	3 4 5	
59467968	Midazolam hydrochloride [POM]	09/90		1 2 4	
62015398	Misoprostol	09/90		4	[21]
59122462	Misoprostol (alt. CAS, see CAS 62015398)	09/90		4	[21]
50077	Mitomycin C		c	3 4	
65271809	Mitoxantrone	11/20	c	3	
70476823	Mitoxantrone hydrochloride [PAH-Derivative, POM]	09/90		1 2 4	
11380347	MOPP (vincristine-prednisone-nitrogen mustard-procarbazine mixture)	11/20	c	4	
139913	5-(Morpholinomethyl)-3-[(5-nitrofurfurylidene)amino]-2-oxazolidinone		c	3 4	
86220420	Nafarelin acetate [PAH-Derivative, POM]	09/90		1 2 4	
3771195	Nafenopin [POM]		c	1 2 3 4	
389082	Nalidixic acid	11/20	c	4	
1405103	Neomycin sulfate	09/90		4	
56391572	Netilmicin sulfate	09/90		4	
21829254	Nifedipine	11/20		4	
66085594	Nimodipine	11/20		4	
61574	Niridazole		c	3 4	
139946	Nithiazide	11/20			7
602608	9-Nitroanthracene [PAH-Related]	11/20			7
67209	Nitrofurantoin	06/91	c	4	

**Appendix A-III  
Substances Which Need Not Be Reported Unless Manufactured By the Facility**

<b>Emittent ID</b> [Note 1]	<b>Substance Name</b> [Note 2]	<b>Add Date</b> [Note 3]	<b>Carcinogen</b> [Note 4]	<b>Source List(s)</b> [Note 6]	<b>Other Note(s)</b>
59870	Nitrofurazone	09/90	c	4	
555840	1-[(5-Nitrofurfurylidene)amino]-2-imidazolidinone		c	3 4	
531828	N-[4-(5-Nitro-2-furyl)-2-thiazolyl]acetamide		c	3 4	
1455216	1-Nonanethiol	11/20			7
51989	Norethisterone acetate (Norethindrone acetate)	11/20		4	
68235	Norethynodrel	11/20	c	4	
6533002	Norgestrel	09/90		4	
604751	Oxazepam	11/20	c	3 4	
129204	Oxyphenbutazone	11/20			7
79572	Oxytetracycline	06/91		4	
2058460	Oxytetracycline hydrochloride (internal use)	11/20		4	
33069624	Paclitaxel	11/20		4	
150130	para-Aminobenzoic acid	11/20			7
115673	Paramethadione	09/90		4	
52675	Penicillamine	06/91		4	
57330	Pentobarbital sodium	09/90		4	
37319178	Pentosan polysulfate sodium	11/20	c	3 4	
116001968					
53910251	Pentostatin	11/20		4	
380610275	Pertuzumab	11/20		4	
63989	Phenacemide	09/90		4	
62442	Phenacetin		c	3 4 5	
94780	Phenazopyridine	11/20	c	4	
136403	Phenazopyridine hydrochloride		c	3 4 5	
156514	Phenelzine sulfate	11/20			7
3546109	Phenesterin	09/89	c	4 5	
103037	Phenicarbazide	11/20			7
50066	Phenobarbital		c	3 4	
59961	Phenoxybenzamine [POM]	09/89	c	1 2 4	
63923	Phenoxybenzimidazole hydrochloride [POM]	09/90	c	1 2 3 4 5	
435972	Phenprocoumon	11/20		4	
50339	Phenylbutazone	11/20			7

**Appendix A-III**  
**Substances Which Need Not Be Reported Unless Manufactured By the Facility**

Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Carcinogen [Note 4]	Source List(s) [Note 6]	Other Note(s)
108736	Phloroglucinol	11/20		2	
2062784	Pimozide	11/20		4	
54911	Pipobroman	09/90		4	
18378897	Plicamycin [PAH-Derivative, POM]	09/90		1 2 4	
81131706	Pravastatin sodium	11/20		4	
2955386	Prazepam	11/20			7
29069247	Prednimustine	11/20			7
125020	Prednisolone sodium phosphate	11/20		4	
125337	Primidone	11/20	c	3 4	
671169	Procarbazine	11/20	c	4	
366701	Procarbazine hydrochloride		c	3 4 5	
57830	Progesterone		c	3 4 5	
1160	Progestins including but not limited to:		c		
71589	Medroxyprogesterone acetate		c	3 4	
68224	Norethisterone		c	4 5	
51025	Pronetalol hydrochloride	11/20			7
51525	Propylthiouracil		c	3 4 5	
58140	Pyrimethamine	11/20		4	
36735225	Quazepam	11/20		4	
108463	Resorcinol	11/20		2	
302794	all-trans-Retinoic acid	09/89		4	
1167	Retinol/retinyl esters	09/89	c	4	
23246960	Riddelliine	11/20	c	3 4 5	
26308281	Ripazepam	11/20			7
122320734	Rosiglitazone	11/20			7
81072	Saccharin		c	4 5	
309433	Secobarbital sodium	11/20		4	
114466385	Sermorelin acetate	11/20		4	
138590	Shikimic acid	11/20			7
52017	Spironolactone	11/20	c	4	
10418038	Stanozolol	11/20	c	4	

**Appendix A-III**  
**Substances Which Need Not Be Reported Unless Manufactured By the Facility**

Emittent ID [Note 1]	Substance Name [Note 2]	Add Date [Note 3]	Carcinogen [Note 4]	Source List(s) [Note 6]	Other Note(s)
3810740	Streptomycin sulfate	06/91		4	
18883664	Streptozotocin		c	3 4 5	
110-15-6	Succinic acid	11/20		2	
127695	Sulfafurazole (Sulfisoxazole)	11/20			7
723466	Sulfamethoxazole	11/20			7
599791	Sulfasalazine	11/20	c	3 4	
126330	Sulfolane	11/20		2	
38194502	Sulindac	11/20		4	
846504	Temazepam [POM]	09/90		1 2 4	
52232674	Teriparatide	11/20	c	4	
58208	Testosterone cypionate	11/20		4	
64755	Tetracycline hydrochloride	06/91		4	
	--- Tetracyclines (internal use)	11/20		4	
50351	Thalidomide			4	
58559	Theophylline	11/20			7
154427	Thioguanine	09/90		4	
141902	Thiouracil	11/20	c	3 4	
49842071	Tobramycin sulfate	09/90		4	
97240794	Topiramate	11/20		4	
89778267	Toremifene	11/20			7
299752	Treosulfan		c	3 4	
396010	Triamterene	11/20	c	3 4	
28911015	Triazolam [POM]	09/90		1 2 4	
817094	Trichlormethine (Trimustine hydrochloride)	11/20	c	3 4	
1954285	Triethylene glycol diglycidyl ether	11/20			7
13647353	Trilostane	09/90		4	
127480	Trimethadione	06/91		4	
82952645	Trimetrexate glucuronate	11/20		4	
5332525	1-Undecanethiol	11/20			7
66751	Uracil mustard		c	3 4	
26995915	Urofollitropin	09/90		4	

**Appendix A-III  
Substances Which Need Not Be Reported Unless Manufactured By the Facility**

<b>Emitting ID</b> [Note 1]	<b>Substance Name</b> [Note 2]	<b>Add Date</b> [Note 3]	<b>Carcinogen</b> [Note 4]	<b>Source List(s)</b> [Note 6]	<b>Other Note(s)</b>
99661	Valproate			4	
143679	Vinblastine sulfate [POM]	09/90		1 2 4	
2068782	Vincristine sulfate [POM]	09/90		1 2 4	
12001795	Vitamin K substances	11/20			7
7481892	Zalcitabine	11/20	c	3 4	
30516871	Zidovudine (AZT)	11/20	c	3 4	
111406872	Zileuton	11/20	c	4	

Note      Text of Note

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- [ 1]      Emittent ID (the emittent identification number) is the Chemical Abstract Service (CAS) number where available, or an ARB-assigned 4-digit emittent ID code.
- A dash ("-") is shown for the Emittent ID for substances which are alphabetized under a group header or synonym elsewhere on the list. Refer to the cross reference indicated in parenthesis, "( )".
- A double dash ("- -") is shown for the Emittent ID to indicate that the entry is a non-reportable group header for the substances immediately following it.
- An asterisk ("\*") is shown for the Emittent ID to indicate that the emissions of unspecified metal compounds shall be reported as the metal atom equivalent. See Note [7].
- A pound sign ("#") is shown for the Emittent ID to indicate that the individual, component listed substances must be reported for this mixture or group.
- [ 2]      Individual substances listed under a group heading must be reported individually. Other, unspecified substances in the group must be summed and reported using the emittent ID of the group heading.
- The square bracket designation, "[ ]", indicates that the substance is a component of the chemical group heading(s) within the brackets.
- The braces designation, "{ }", indicates a synonym for the substance listed.
- [ 3]      The date the Board approved addition of the substance to the original list. The original list was approved by the Board in July 1988.
- [ 4]      The letter "c" indicates that for purposes of this section the substance shall be treated as a human carcinogen or potential human carcinogen.
- [ 5]      Applicable degree of accuracy (in lbs/year except where noted). Radionuclides must be reported in Curie units, and the accuracy must be considered accordingly. Refer to section VII.E. and Appendix B.



Note      Text of Note

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[ 6]      Substances are required to be included on the Hot Spots list based on the following lists cited in Health & Safety Code section 44321:

1 = California Air Resources Board (44321(c));      2 = Environmental Protection Agency (44321(e));

3 = International Agency for Research on Cancer;      4 = Governor's List of Carcinogens and Reproductive Toxicants;  
(44321(a); Labor Code section 6382(b)(1));      (44321(b); HSC section 25249.8);;

5 = National Toxicology Program (44321(a));      6 = Hazard Evaluation System and Information Service  
(44321(d));

7 = Added pursuant to HSC section 44321 (f).

[ 7]      Emissions of unspecified metal compounds shall be reported as the amount of the metal atom equivalent, using the metal emittent identification number for the metal itself; or using the emittent identification number indicated on the table, such as for reporting inorganic versus other-than-inorganic arsenic compounds}, or for reporting soluble versus insoluble cobalt compounds.

For unspecified metal compounds which contain two or more listed metals (e.g., zinc chromate), each component metal shall be reported as the amount of the appropriate metal atom equivalent (i.e., the zinc portion of the weight as zinc equivalent and the chromate portion as hexavalent chromium equivalent.

For specific, individually listed metal compounds (e.g., Lead chromate or Cobalt oxalate), emissions shall be reported for the compound (as pounds of whole compound), using the emittent identification number for that compound.

The rare earth elements and their compounds shall be treated in the same way.

[ 8]      Compounds of the form "X-CN", where formal dissociation can occur. Report as the amount of Cyanide equivalent in the compound using an emittent identification code of 1073.

Note      Text of Note

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[ 9]      Emissions of these mixtures shall be reported as emissions of total particulate matter and total organic gas, using the following emittent identification numbers:

9901 Diesel exhaust, particulate matter

9910 Gasoline exhaust, particulate matter

9902 Diesel exhaust, total organic gas

9911 Gasoline exhaust, total organic gas

Individually listed substances from gasoline exhaust must also be reported. Emissions of diesel engine exhaust particulate matter (diesel PM), shall be reported as diesel PM using emittent ID 9901.

[10]      The emittent identification number 1105 has been discontinued for all facilities reporting for the first time and for all updates. Use the listed replacement emittent identification codes 1103 and 1104.

[11]      Emissions of the individual, component listed substances must be reported in addition to the total gasoline vapors emissions.

[12]      These lead compounds are listed here so that the inorganic lead fraction will be quantified and reported if these individual compounds cannot be quantified.

[13]      PAH: (Polycyclic Aromatic Hydrocarbon) - An organic compound consisting of a fused ring structure containing at least two (2) benzene rings, and which may also contain additional fused rings not restricted exclusively to hexagonal rings.

The structure does not include any heteroatoms or substituent groups. The structure includes only carbon and hydrogen.

PAHs are a subgroup of POM and have a boiling point of greater than or equal to 100 C.

Reporting of individual PAHs is required when quantification methods exist; see Appendix B Emission Information Form (6)(d) for details.

Note      Text of Note

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- [14]      PAH-DERIVATIVE: (Polycyclic Aromatic Hydrocarbon Derivative) - An organic compound consisting of a fused ring structure containing at least two (2) benzene rings, and which may also contain additional fused rings not restricted exclusively to hexagonal rings. The fused ring structure does not contain heteroatoms. The structure does contain one or more substituent groups.
- PAH-Derivatives are a subgroup of POM and have a boiling point of greater than or equal to 100 C.
- Reporting of individual PAH-Derivatives and PAH-Related is required; see Appendix B Emission Information Form (6)(d) for details.
- [15]      POM: (Polycyclic Organic Matter) - Includes organic compounds with more than one benzene ring, and which have a boiling point of greater than or equal to 100 C.
- [16]      Radionuclides and other radioactive substances shall be reported in units of Curies per year (for annual average emissions) and in units of milliCuries per hour (for maximum hourly emissions).
- [17]      Emissions of Vanadium (fume or dust) shall be reported as the amount of the vanadium atom equivalent, using the identification number 7440622.
- [18]      The emittent identification number 1001 has been replaced with the CAS number 26148685.
- [19]      For facilities that are subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.
- [20]      Additional Organophosphate Flame Retardants (OPFRs) are listed under the category "Brominated and Chlorinated Organics Compounds used as Flame Retardants".
- [21]      When multiple CAS appear to be used for the same chemical, we have included these CAS list.
- [22]      The facility operator shall report the CAS number and complete chemical name for any substance meeting the definition of this functional group class

Note      Text of Note

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[23]      See Section II.H. for Effective Phase requirements.

"ChemSet-1" is shown for Effective Phase to indicate newly added chemical substances that must be reported starting with 2022 emission inventory data year for facilities in District Group A, or 2023 data year for facilities in District Group B

"ChemSet-2" is shown for Effective Phase to indicate newly added chemical substances that must be reported starting with the 2026 emission inventory data year for facilities in District Group A, or 2027 data year for facilities in District Group B.

A letter e ("e") is shown for Effective Phase to indicate an existing Appendix A chemical substance prior to 11/20 Regulation amendment. These are required to be reported without phasing.

An existing group ("ExistGrp") is shown for Effective Phase to indicate any substance under or added under an existing grouping in Appendix A prior to 11/20 Regulation amendment. These are required to be reported without phasing.

A cross reference ("see cross-ref") is shown for Effective Phase for a substance that appears in more than one place on the chemical list to notify the reader to refer to the main substance listing for the appropriate Effective Phase designation

A dash (" - ") is shown for Effective Phase as described in footnote [ 1]. These are required to be reported without phasing.