

List of Screening Levels (ITSL, IRSL & SRSL) in CAS No. Order

CAS No.	Chemical	Note	1° ITSL (µg/m³)	ITSL Avg Time	2° ITSL (µg/m³)	ITSL Avg Time	IRSL (µg/m³)	SRSL (µg/m³)	IRSL Avg Time
1317-38-0	Copper oxide		2	8 hr					
1317-95-9	silica tripoli	31	3	annual					
1319-77-3	cresol (mixed isomers)	30	100	8 hr					
1320-67-8	propylene glycol monomethyl ether		2000	annual					
1328-53-6	phthalocyanine pigment green		0.1	annual					
1330-20-7	mixed xylenes	2	390	annual					
1330-86-5	adipate plasticizer		0.1	annual					
1332-21-4	asbestos	16					0.000022	0.00022	annual
1332-58-7	kaolin		20	8 hr					
1333-13-7	tert-butyl-m-cresol		0.1	annual					
1333-86-4	carbon black		30	8 hr					
1336-21-6	ammonium hydroxide	39	720	1 hr					
1336-36-3	polychlorinated biphenyls	8					0.01	0.1	annual
1338-23-4	methyl ethyl ketone peroxide		15	1 hr					
1345-04-6	antimony trisulfide		0.2	annual					
1345-05-7	lithopone		0.1	annual					
1395-21-7	Bacillus subtilis BPN	4	0.0006	1 hr					
1445-45-0	trimethyl-o-acetate		24	annual					
1477-55-0	1,3-bis(aminomethyl)benzene		1	1 hr					
1559-35-9	ethylene glycol mono-2-ethylhexyl ether		37	annual					
1559-36-0	diethylene glycol mono-2-ethylhexyl ether		22	annual					
1559-37-1	triethylene glycol mono-2-ethylhexyl ether		0.1	annual					
1569-01-3	1-propoxy-2-propanol		86	annual					
1569-02-4	propylene glycol monoethyl ether (beta)		240	annual					
1589-47-5	2-methoxy-1-propanol		660	annual					
1590-87-0	disilane		0.1	annual					
1623-15-0	monobutyl phosphoric acid		15	annual					

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7783-28-0	diammonium hydrogen phosphate	26		annual					
7783-54-2	nitrogen trifluoride		290	8 hr					
7783-61-1	silicon tetrafluoride		0.2	annual					
7784-42-1	arsine		0.05	annual					
7786-30-3	magnesium chloride		5	annual					
7786-81-4	Nickel Sulfate						0.006	0.06	annual
7789-23-3	potassium fluoride		76	8 hr					
7789-82-4	calcium molybdate		5	8 hr					
7803-51-2	phosphine		0.3	annual					
7803-52-3	stibine		5	8 hr					
7803-62-5	silicon tetrahydride		30	annual					
8001-35-2	toxaphene						0.003	0.03	annual
8001-79-4	castor oil		50	8 hr					
8002-09-3	yarmor pine oil		10	annual					
8002-74-2	paraffin wax fume		20	8 hr					
8005-02-5	solvent black		0.1	annual					
8006-61-9	gasoline						2	20	annual
8006-64-2	turpentine	18	1120	8 hr					
8007-45-2	coke oven emissions						0.001	0.01	annual
8008-20-6	kerosene	44	200	annual	2000	8 hr			
8012-95-1	mineral oil	11	50	8 hr					
8014-95-7	oleum	9,13	1	annual	120	1 hr			
8020-83-5	deodorized kerosene	44	200	annual	2000	8 hr			
8030-30-6	naphtha	1	4000	8 hr					
8032-32-4	VM & P naphtha	1	3500	8 hr					
8042-47-5	white mineral oil	11	50	8 hr					
8050-09-7	colophony		1	1 hr					

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8052-41-3	stoddard solvent	1	3500	8 hr					
8052-42-4	asphalt fumes	5							annual
9000-90-2	alpha-amylase	4	0.0006	1 hr					
9001-92-7	bacillus subtilis neutral protease	4	0.0006	1 hr					
9002-86-2	polyvinyl chloride		5	annual					
9002-92-0	polyoxyethylene lauryl ether		12	annual					
9002-93-1	triton x100		0.15	annual					
9003-11-6	methyl oxirane (pluronic p103)		0.1	annual					
9003-13-8	polyalkylene glycol monobutyl ether/ butoxypolypropylene glycol		160	annual					
9003-22-9	polyvinylchloride/polyvinylacetate	26							
9003-39-8	polyvinyl pyrrolidone		4	annual					
9003-55-8	styrene-butadiene polymer		0.1	annual					
9004-32-4	carboxymethyl cellulose		300	annual					
9004-58-4	ethylhydroxyethyl cellulose	26							
9004-74-4	polyethylene glycol methyl ether		13	annual					
9005-70-3	witconol al 69-66		0.1	annual					
9011-17-0	polyvinylidene fluoride		0.1	annual					
9014-01-1	subtilisin	4	0.0006	1 hr					
9014-85-1	tetramethyl decyndiol		0.1	annual					
9014-92-0	t-det dd-14		0.1	annual					
9016-45-9	igepal co-630		18	annual					
9016-87-9	polmeric methylene diphenyl diisocyanate		0.6	annual					
9036-19-5	polyethylene glycol mono(octylphenyl)ether		1.9	annual					
9063-06-3	oxirane, methyl-, polymer with oxirane, monomethyl ether		0.1	annual					
10025-78-2	trichlorosilane		8	annual					
10025-91-9	antimony trichloride		5	8 hr					

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10026-04-7	silicon tetrachloride	36	20	annual	2000	1 hr			
10034-93-2	hydrazine sulfate						0.0008	0.008	annual
10034-96-5	manganese sulfate monohydrate	29							
10035-10-6	hydrogen bromide		70	1 hr					
10039-56-2	sodium hypophosphite monohydrate		0.1	annual					
10043-35-3	boric acid	40	460	1 hr					
10049-04-4	chlorine dioxide		0.2	24 hr					
10096-91-0	hydroxyphenylbenzotriazole		0.1	annual					
10097-09-3	bis-urea accelerator		0.1	annual					
10102-18-8	sodium selenite	34	2	8 hr					
10215-30-2	2-propoxy-1-propanol		0.1	annual					
10377-60-3	magnesium nitrate	38							
10431-98-8	2-ethyl-2-oxazoline		53	annual					
10469-09-7	tetrachloropicolinic acid		21	annual					
10482-56-1	alpha-terpineol		0.1	annual					
10551-21-0	phenethyl alpha picolinium bromide		0.1	annual					
12021-95-3	hexafluorozirconium acid		0.1	annual					
12035-72-2	nickel subsulfide						0.0021	0.021	annual
12037-29-5	praseodymium oxide		0.1	annual					
12054-85-2	ammonium molybdate		5	8 hr					
12070-12-1	tungsten carbide	6	50	8 hr					
12136-45-7	potassium oxide		0.1	annual					
12262-58-7	cyclohexanone peroxide		0.1	annual					
12401-86-4	sodium monoxide		0.1	annual					
12789-03-6	chlordane (technical)		0.7	annual			0.01	0.1	annual
13007-85-7	sodium glucoheptonate		0.1	annual					
13209-41-1	17,21-dihydroxy-16 alpha-methylpregna-1,4,9(11)-triene-3,20-dione		0.1	annual					

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13410-01-0	selenic acid	34	2	8 hr					
13463-67-7	titanium dioxide		24	8 hr					
13465-77-5	hexachlorodisilane		0.1	annual					
13466-78-9	carene, delta	18	1120	8 hr					
13528-93-3	bis(me2clsilyl)ethane		0.1	annual					
13597-73-4	disiloxane		0.1	annual					
13701-59-2	barium metaborate monohydrate		0.1	annual					
13879-32-8	1,1'[methylenebis(oxyethane-1,2-diloxy)]bisbenzene		0.1	annual					
13952-84-6	sec-butylamine		5	annual					
14464-46-1	silica cristobalite	31	3	annual					
14579-03-4	cyclopentyltrichlorosilane		0.1	annual					
14807-96-6	talca						0.8	8	annual
14808-60-7	silica quartz	31	3	annual					
14960-06-6	sodium lauriminodipropionate		0.1	annual					
15096-52-3	sodium aluminum fluoride		270	8 hr					
15245-12-2	nitric acid, ammonium calcium salt		0.1	annual					
15321-61-6	iron oxalate		0.1	annual					
15468-32-3	silica tridymite	31	3	annual					
15625-89-5	Trimethyl propane triacrylate		1	annual	20	1 hr			
15821-83-7	propylene glycol n-butyl ether (beta isomer)	23	77	annual					
15956-58-8	manganese 2-ethylhexanoate	29							
16065-83-1	Chromium, trivalent		5	8 hr					
16079-88-2	1-bromo-3-chloro-5,5-dimethylhydantoin		2	8 hr					
16369-21-4	n-propylethanolamine		28	annual					
16691-43-3	3-amino-5-mercapto-1,2,4-triazole		7	annual					
16753-62-1	methylvinyl dimethoxysilane		100	annual					
16881-77-9	methyl dimethoxysilane		92	annual					

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16883-83-3	1,3-pentanediol-2,2,4-trimethyl-3-(benzyl phthalate)-isobutyrate		0.1	annual					
16893-85-9	sodium silicofluoride		250	8 hr					
16919-31-6	ammonium hexafluorozirconate		0.1	annual					
17557-23-2	neopentyl glycol diglycidyl ether		0.1	annual					
17639-93-9	methyl chloropropionate		6	annual					
18063-03-1	2,6-difluorobenzamide		11	annual					
18300-89-5	cinnamate		0.1	annual					
18387-19-4	1,1,2,4-tetramethyl-1-1-sila-2-aza-cyclopentane		0.7	annual					
18395-30-7	isobutyltrimethoxysilane		200	annual					
18540-29-9	chromium, hexavalent - mist		0.008	annual			0.000083	0.00083	annual
18540-29-9	chromium, hexavalent - particulate		0.1	annual			0.000083	0.00083	annual
18868-43-4	molybdenum dioxide		30	8 hr					
19089-47-5	propylene glycol monoethyl ether (alpha)		23	annual					
19430-93-4	perfluorobutylethylene		2600	annual	10000	8 hr			
19549-80-5	4,6-dimethyl-2-heptanone	19	0.1	annual					
19666-30-9	oxadiazon						0.05	0.5	annual
20324-33-8	tripropylene glycol methyl ether, dowanol 62b		10	annual					
20536-16-7	tetrachlorodisilane		0.1	annual					
21324-40-3	lithium hexafluorophosphate		0.1	annual					
21348-59-4	niobium oxalate		0.1	annual					
22407-51-8	tetramethylchlorovinylsiloxane		0.1	annual					
22431-89-6	3,3,6,6-tetramethyl-1,2-dioxane		0.1	annual					
23410-40-4	1,2-ethanediamine, n-(3-(dimethoxymethylsilyl)-2-methylpropyl)		0.1	annual					
24304-00-5	aluminum nitride		0.03	annual					
24510-87-0	flumethasone 5		0.1	annual					
24729-96-2	clindamycin phosphate		6	annual					

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24801-88-5	triethoxy(3-isocyanatopropyl)silane		0.08	annual					
24937-79-9	polyvinylidene fluoride		0.1	annual					
24938-91-8	polyglycol 59-13		8	annual					
25013-15-4	vinyl toluene		5	annual					
25036-25-3	diglycidyl ether of bisphenol a		0.1	annual					
25068-38-6	bisphenol a/epichlorohydrin resin	26							
25085-99-8	bisphenol epoxy resin		0.1	annual					
25154-52-3	nonyl phenol (mixed isomers)		30	24 hr					
25168-26-7	2,4-D, isooctyl ester		3	annual					
25265-77-4	texanol		55	annual					
25322-68-3	polyethylene glycol		8	annual					
25322-69-4	polypropylene glycol		49	annual					
25340-17-4	diethylbenzene mixture		6	annual					
25498-49-1	tripropylene glycol methyl ether		20	annual					
25550-14-5	ethyl toluene -mixture		0.1	annual					
25551-13-7	trimethylbenzenes (mixed isomers)	14	185	annual	1200	8 hr			
25584-83-2	hydroxypropyl acrylate		28	8 hr					
25882-44-4	Butanedioic acid, sulfo-, 1-ester with N-(2-hydroxyethyl)		0.1	annual					
25973-55-1	bdtp		5.3	annual					
25988-97-0	dimethylamine-epichlorohydrin polymer		0.1	annual					
26062-79-3	polydimethyl diallyl ammonium chloride		1000	annual					
26142-30-3	diglycidyl ether of polyglycol		0.1	annual					
26172-55-4	5-chloro-2-methyl-4-isothiazolin-3-one		0.1	annual					
26447-40-5	1,1'-methylene bisisocyanatobenzene		0.6	24 hr					
26471-62-5	toluene diisocyanate	13	0.07	annual	0.4	8 hr	0.03	0.3	annual
26530-20-1	octylisothiazolone		2	annual					

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26544-20-7	mcpa 2-ehe (2-methyl-4-chlorophenoxyacetic acid 2-ethylhexyl ester)		90	annual					
26761-40-0	diisodecyl ester phthalate		30	annual					
26780-96-1	poly(1,2-dihydro-2,2,4-trimethylquinoline)		35	24 hr					
26952-20-5	picloram, isooctyl ester		0.1	annual					
26952-21-6	isooctanol		2700	8 hr					
27078-75-7	4,6-difluoro-2-methoxypyrimidine		0.1	annual					
27253-31-2	cobalt neodecanoate		1.4	8 hr					
27274-31-3	polyethylene glycol monoallyl ether		6	annual					
27619-97-2	6:2 fluorotelomer sulfonic acid		1	annual					
27646-80-6	2-methylamino-2-methyl-1-propanol		0.1	annual					
27668-52-6	octadecyldimethyl (3-(trimethoxysilyl)propyl) ammonium chloride		170	annual					
28300-74-5	antimony potassium tartrate		5	8 hr					
28476-83-7	2-butenedioic acid (z)-dibutyl ester, polymer with chloroethene		0.1	annual					
28553-12-0	diisononyl phthalate	26	75	annual					
28729-52-4	dimethylcyclopentane		0.1	annual					
28729-54-6	m-propyl toluene		0.1	annual					
28961-43-5	triacrylate ester		0.1	annual					
28984-69-2	4,4-(5h)-oxazoledimethanol, 2-(hepadecanyl)		0.1	annual					
29385-43-1	tolyltriazole		2.1	annual					
29387-86-8	propylene glycol, n-butyl ether (mixed isomers)	23	77	annual					
29733-18-4	diisodecyl glutarate		0.1	annual					
29823-21-0	ethyl-8-bromooctanoate		0.1	annual					
29911-27-1	dipropylene glycol monopropyl ether		180	annual					
29911-28-2	dipropylene glycol monobutyl ether		800	24 hr					
30030-25-2	vinylbenzylchloride		2	annual					

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30705-14-7	SR 1153		0.1	annual					
31138-65-5	sodium glucoheptonate		0.1	annual					
31726-34-8	poly(oxy-1,2-ethanediyl),alpha-hexyl-omega-hydroxy		0.1	annual					
34375-28-5	hydroxymethylamino ethanol		0.1	annual					
34590-94-8	dipropylene glycol methyl ether		720	annual					
35176-78-4	polyethylene terephthalate (uncoated)		0.1	annual					
35794-11-7	3,5-dimethylpiperidine		0.1	annual					
35884-42-5	dowanol dpcb		0.1	annual					
37251-67-5	polyethylene polypropylene glycol		0.1	annual					
37259-58-8	Serine proteinase	4	0.0006	1 hr					
38436-16-7	perfluorobutylethylmethyldichlorosilane	36	2	annual					
39464-66-9	lauryl alcohol, phosphated		20	annual					
40758-65-4	4,6-dichloro-2-ethoxypyrimidine		0.1	annual					
41556-26-7	bis(pentamethylpiperdiny)sebacate		0.1	annual					
41593-38-8	propylene glycol monophenyl ether		0.1	annual					
42978-66-5	tripropylene glycol diacrylate		22	annual					
44992-01-0	acryloyloxyethyltrimethyl ammonium chloride		0.1	annual					
46438-39-5	monobutyl monophenyl phosphoric acid		0.1	annual					
50791-87-2	methylvinylbis(N-methylace		4	annual					
51200-87-4	dimethyloxazolidine		1	annual					
51730-94-0	dipropylene glycol phenyl ether		0.1	annual					
51811-38-2	tryfac 5556		0.1	annual					
52125-53-8	propylene glycol monoethyl ether (mixture)		23	annual					
53880-05-0	isophorone diisocyanate polymer		0.1	annual					
55818-57-0	phenol, 4,4-(1-methylethylidene)bis, polymer with (chloromethyl)oxiran		0.1	annual					
55934-93-5	tripropylene glycol n-butyl ether		346	annual					

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56076-20-1	4-chloro-2-ethoxy-6-fluoropyrimidine		0.1	annual					
56539-66-3	3-methoxy-3methyl-1butanol		13	annual					
56741-95-8	bropirimine		15	annual					
56780-58-6	2-hydroxy-3-trimethylammoniopropyl ether starch		0.1	annual					
57018-52-7	propylene glycol tert-butyl ether						0.7	7	annual
60304-36-1	aluminum potassium fluoride		0.2	annual					
60676-86-0	amorphous silica - fused silica	28	60	8 hr					
60966-36-1	bisnoralcohol		17	annual					
61477-94-9	pirmenol hydrochloride		3	annual					
61788-93-0	coco alkyl dimethyl amines		0.1	annual					
61789-52-4	cobalt tallate		6	annual					
61790-33-8	tallow alkylamines		0.1	annual					
61790-53-2	amorphous silica - diatomaceous earth	28	60	8 hr					
61791-12-6	ethoxylated castor oil	26		annual					
61791-28-4	ethoxy, tallow alcohol		0.1	annual					
63148-57-2	Dow Corning Fluid 1107		30	annual					
63148-62-9	high molecular wt. silicon		2	annual					
63148-65-2	polyvinyl butyral		0.1	annual					
63449-39-8	chlorinated paraffins						0.03	0.3	annual
63716-40-5	n-butoxy propanol (mixed isomers)	23	77	annual					
63937-30-4	anhydro-dimethylamino hexose reductone		0.6	annual					
64248-62-0	3,4-difluorobenzonitrile		0.6	annual					
64265-57-2	crosslinker cx100		10	annual					
64475-85-0	mineral spirits	1	3500	8 hr					
64485-82-1	thiazole ester		17	annual					
64741-41-9	naphtha heavy straight run	1	3500	8 hr					
64741-42-0	naphtha, full range straight run		18	annual					

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64741-44-2	straight run middle distillate		36	annual					
64741-54-4	naphtha, heavy catalytic cracked		115	annual					
64741-55-5	naphtha (petroleum), light catalytic cracked	25	5600	annual					
64741-56-6	residues, (petroleum), vacuum		16	annual					
64741-59-9	distillates, (petroleum), light catalytic cracked	24	93	annual					
64741-62-4	clarified oils (petroleum), catalytic cracked		12	annual					
64741-63-5	naphtha, light catalytic reformed		100	annual					
64741-64-6	naphtha, full range alkylate	1	3500	8 hr					
64741-65-7	heavy alkylate naphtha	1	3500	8 hr					
64741-66-8	light alkylate naphtha		138	annual					
64741-68-0	heavy catalytic reformed naphtha		70	annual					
64741-79-3	petroleum coke	26							
64741-81-7	distillates (petroleum), heavy thermal cracked		15	annual					
64741-82-8	distillates (petroleum), light thermal cracked	24	93	annual					
64741-83-9	naphtha, heavy thermal cracked	25	5600	annual					
64741-86-2	sweetened middle distillate	1	2	annual					
64741-88-4	solvent refined heavy paraffinic distillate	11	50	8 hr					
64741-89-5	distillates (petroleum) solvent-refined light paraffinic	11	50	8 hr					
64742-06-9	extracts (petroleum), middle distillate solvent		2	annual					
64742-14-9	petroleum distillates, acid treated	44	200	annual	2000	8 hr			
64742-30-9	distillates (petroleum), chemically neutralized middle	1	2	annual					
64742-31-0	chemically neutralized light distillates	44	200	annual	2000	8 hr			
64742-46-7	hydrotreated middle distillate	11	50	8 hr					
64742-47-8	hydrotreated light distillate	44	200	annual	2000	8 hr			
64742-48-9	hydrotreated heavy naphth	1	3500	8 hr					
64742-49-0	hydrotreated light naphtha	1	3500	8 hr					

List of Screening Levels (ITSL, IRSL & SRSL) in CAS No. Order

CAS No.	Chemical	Note	1° ITSL (µg/m³)	ITSL Avg Time	2° ITSL (µg/m³)	ITSL Avg Time	IRSL (µg/m³)	SRSL (µg/m³)	IRSL Avg Time
64742-52-5	hydrotreated heavy naphthenic distillate	11	50	8 hr					
64742-53-6	hydrotreated light naphthenic distillate	11	50	8 hr					
64742-54-7	hydrotreated heavy paraffinic mineral oil	11	50	8 hr					
64742-55-8	hydrotreated light paraffinic distillate	11	50	8 hr					
64742-62-7	residual oils (petroleum) solvent-dewaxed	11	50	8 hr					
64742-65-0	dewaxed heavy paraffinic mineral oil	11	50	8 hr					
64742-80-9	hydrodesulfurized middle distillate		2	annual					
64742-81-0	hydrodesulfurized kerosene	44	200	annual	2000	8 hr			
64742-82-1	naphtha (petroleum) hydrodesulfurized heavy		14	annual					
64742-88-7	solvent naphtha medium aliphatic	1	3500	8 hr					
64742-89-8	solvent naphtha light aliphatic	1	3500	8 hr					
64742-94-5	heavy aromatic solvent naphtha	1	70	annual					
64742-95-6	light aromatic solvent naphtha (petroleum)	1	100	annual					
64742-96-7	solvent naphtha (petroleum) heavy aliphatic	44	200	annual	2000	8 hr			
64771-72-8	norpar 12		0.1	annual					
65402-65-5	4-hydroxytetramethyl piperadine free radical (4-oh-tempo)		4	annual					
66071-86-1	LV 837/821		0.1	annual					
67701-10-4	sodium soap 903923		6	annual					
67701-11-5	sodium soap 900602		6	annual					
67762-41-8	linear primary alcohol		0.1	annual					
67762-90-7	siloxanes and silicones(silica filled polydimethylsiloxane)		0.1	annual					
67784-80-9	soybean oil, methyl esters		16	annual					
67812-17-3	3-trimethoxysilyl propylmethyl methylphosphonate		0.1	annual					
68002-20-0	1,2,3-triazine-2,4,6-triamine polymer with methylated formaldehyde		0.1	annual					
68003-28-1	polyamide		0.1	annual					

List of Screening Levels (ITSL, IRSL & SRSL) in CAS No. Order

CAS No.	Chemical	Note	1° ITSL (µg/m³)	ITSL Avg Time	2° ITSL (µg/m³)	ITSL Avg Time	IRSL (µg/m³)	SRSL (µg/m³)	IRSL Avg Time
68037-58-1	high molecular wt. silicon		0.1	annual					
68037-76-3	alphamethylstyrene(dodecyl)polysiloxane		0.1	annual					
68037-77-4	ethylmethylsiloxane, 2-phenylpropylmethylsiloxane copolymer		0.1	annual					
68037-88-7	high molecular weight sili		0.1	annual					
68071-85-2	Spenkel F34		0.1	annual					
68083-19-2	high molecular wt. silicon		0.1	annual					
68083-20-5	linear methylvinylsiloxane ppolymer hydroxyl endblock		0.1	annual					
68083-40-9	2-hydroxy-4(2'-hydroxy-3'octoxypropoxy)-benzophenone		0.1	annual					
68092-49-9	2-hydroxy-4(2'-hydroxy-3'dacyloxypropoxy)-benzophenone		0.1	annual					
68131-40-8	tergitol 15-s-3		290	annual					
68132-02-5	coumarone indene resin		0.1	annual					
68309-52-4	Nylen 5		0.1	annual					
68334-30-5	diesel fuel		70	annual					
68390-56-7	diketene hydrogenated fatty acids		0.1	annual					
68410-00-4	distillates (petroleum), crude oil		19	annual					
68410-23-1	polyethylenepolyamine reaction products with c18-unsat. fatty acids		0.1	annual					
68410-97-9	high benzene naphtha hydrotreated c6-c8 fraction		30	annual	30	24 hr	0.1	1	annual
68410-99-1	paroil 45						0.03	0.3	annual
68439-49-6	ethoxylated c16-18 alcohols		4	annual					
68458-91-3	Solvar & LV 820		0.1	annual					
68459-31-4	fatty acids c9-11 branched glycidyl esters polymer		0.1	annual					
68477-31-6	aromatic petroleum derivative solvent		13	annual					
68479-98-1	Diethyl methyl benzenediamine		80	24 hr			0.2	2	annual

List of Screening Levels (ITSL, IRSL & SRSL) in CAS No. Order

CAS No.	Chemical	Note	1 ^o ITSL (µg/m ³)	ITSL Avg Time	2 ^o ITSL (µg/m ³)	ITSL Avg Time	IRSL (µg/m ³)	SRSL (µg/m ³)	IRSL Avg Time
68515-40-2	alkyl benzyl phthalate		0.1	annual					
68515-44-6	branched and linear diheptyl phthalate ester		0.1	annual					
68516-16-5	sulfuric acid c6-10 alkyl esters		0.1	annual					
68526-86-3	tridecanol		2	annual					
68551-17-7	heavy naphtha	1	3500	8 hr					
68575-36-0	3,5-dichloro-a-methyl st		16	annual					
68608-26-4	sodium petroleum sulfonate		0.1	annual					
68610-11-7	diethylenetriamine reaction product with bisphenol a		0.1	annual					
68783-24-4	di-tallow alkylamines		0.1	annual					
68918-22-9	high molecular wt. silicon		0.1	annual					
68955-35-1	naphtha, catalytic reformed		350	annual					
68956-56-9	hydrocarbons, terpene processing by-products		11	annual					
68987-42-8	ethylenated benzene residues		6	annual					
68990-79-4	oils, vegetable, mixed with animal oil methylesters, polymerized, oxidized		0.1	annual					
69012-64-2	amorphous silica - silica fume	28	60	8 hr					
69013-18-9	alcohols c8-18 ethoxylated propoxylated		0.1	annual					
69029-39-6	polyglycol 26-2		0.1	annual					
69102-90-5	butadiene homopolymer		0.1	annual					
69430-24-6	high molecular wt. silicon		30	annual					
69696-98-6	hexane 1,6-bis(tributyl ammonium bromi		0.1	annual					
69991-67-9	fomblin perfluoropolyether		0.1	annual					
70131-67-8	high molecular wt. silicon		0.1	annual					
70657-70-4	2-methoxy-1-propanol acetate		500	24 hr					
70693-62-8	Pentapotassium bis(peroxymonosulphate) bis(sulphate)		35	8 hr					
70914-20-4	c6-8 branched alcohols		13	annual					

List of Screening Levels (ITSL, IRSL & SRSL) in CAS No. Order

CAS No.	Chemical	Note	1° ITSL (µg/m³)	ITSL Avg Time	2° ITSL (µg/m³)	ITSL Avg Time	IRSL (µg/m³)	SRSL (µg/m³)	IRSL Avg Time
71888-89-6	diisoheptyl phthalate		100	24 hr					
71945-54-5	3-(1,1-dimethylethoxy)-heptane		6	annual					
75782-86-4	alcohols c12-13		31	annual					
77820-58-7	2-amino-3-chlorobenzoic acid methyl ester		7	annual					
78330-21-9	c11-c14 isoalcohols, c14 rich, ethoxylated alcohol		8	annual					
82586-54-7	quinapril step 8		2	annual					
82919-37-7	methyl pentamethyl-4-piperidinyl ester of decanedioic acid		0.1	annual					
84632-65-5	pyrrolo[3,4-c]pyrrole-1,4-dione,3,6-bis(4-chlorophenyl)-2,5-dihydro		0.1	annual					
86753-78-8	Solsperse 5000		0.1	annual					
88230-35-7	oxo-hexyl acetate		81	annual					
88851-61-0	trospetomycin sulfate		0.1	annual					
88917-22-0	dipropylene glycol methyl ether acetate		930	annual					
90076-65-6	lithium bis(trifluoromethanesulfonyl)imide	13	1	annual	40	24 hr			
90438-79-2	oxo-heptyl acetate		41	annual					
90622-57-4	isopar h		128	annual					
95481-62-2	dibasic ester	27	1	annual					
97658-80-5	5-bp-bisamine		10	annual					
98516-30-4	propanol, 1(or 2) ethoxy, acetate isoparaffinic petroleum hydrocarbon		0.1	annual					
98967-40-9	flumetsulam		26	annual					
98967-55-6	n-(2,6-difluorophenyl)-7-methyl-1h-1,2,4-triazolo(1,5a)pyrimidine-2-su		0.1	annual					
102054-10-4	bis(2-methoxy-1-methylethy		6	annual					
103335-54-2	4-aza acid		17	annual					
103429-90-9	3-methoxy-3methyl-1butyl acetate		0.1	annual					
103980-44-5	ceftiofur hydrochloride		166	annual					

List of Screening Levels (ITSL, IRSL & SRSL) in CAS No. Order

CAS No.	Chemical	Note	1° ITSL (µg/m³)	ITSL Avg Time	2° ITSL (µg/m³)	ITSL Avg Time	IRSL (µg/m³)	SRSL (µg/m³)	IRSL Avg Time
106917-31-1	sanduvor 3068 liquid		52	annual					
108419-32-5	octyl acetate		78	annual					
108419-33-6	exxate 900		17	annual					
108419-34-7	exxate 1000		17	annual					
108419-35-8	c11-14 branched alkyl acetates		300	annual					
109265-71-6	Solsperse 12000		0.1	annual					
110839-13-9	1,3-benzenedimethanamine polymer with 2,2'- ((1-methylethylidene) bis(4		0.1	annual					
110888-15-8	4-chloro-3-fluorobenzonitrile		0.1	annual					
111109-77-4	dipropylene glycol dimethyl ether		59	annual					
111381-89-6	branched and linear heptyl nonyl phthalate ester		0.1	annual					
112926-00-8	amorphous silica - precipitated silica and silica gel	28	60	8 hr					
112945-52-5	amorphous silica - pyrogenic or fumed silica	28	60	8 hr					
113171-12-3	n-(2,6-difluorophenyl)-5-amino-1h-1,2,4- triazole-3-sulfonamide		0.1	annual					
117482-84-5	3-chloro-4-fluorobenzonitrile		2	annual					
123312-54-9	distearyldimethylammonium bisulfate		0.1	annual					
123333-53-9	1-hydroxy benzotriazole		0.1	annual					
126803-73-4	n-(2,6-dichloro-3-methylphenyl)-5,7- dimethoxy(1,2,4)triazol...[de-511]		0.1	annual					
129879-84-1	5-amino-1,2,4-triazole-3-sulfonyl chloride		7	annual					
130014-38-9	trifluoropropylsilsesquioxane, dimethylhydrogensilyoxy-terminated		0.1	annual					
136797-56-3	FC-247								
136816-75-6	atevirdane mesylate		16	annual					
139147-73-2	dicyclopentylchlorosilane		0.1	annual					
144669-03-4	hexenylsiloxane		16	annual					

List of Screening Levels (ITSL, IRSL & SRSL) in CAS No. Order

CAS No.	Chemical	Note	1° ITSL (µg/m³)	ITSL Avg Time	2° ITSL (µg/m³)	ITSL Avg Time	IRSL (µg/m³)	SRSL (µg/m³)	IRSL Avg Time
144669-04-5	hexenylsiloxanes		16	annual					
166524-65-8	2-ethoxy-4,6-difluoropyrimidine		20	annual					
166524-75-0	2,2'-dithiobis(5-ethoxy-7-fluoro[1,2,4]triazolo(1,5-c)pyrimidine		0.8	annual					
170557-43-4	dowanol tmh-deg borate ester		32	annual					

Screening Level Footnotes

- 1 The combined ambient impact of all petroleum hydrocarbon materials with Note #1 cannot exceed the ITSL of 3500 $\mu\text{g}/\text{m}^3$ (8-hour average). If a chemical with this footnote has an ITSL other than 3,500 $\mu\text{g}/\text{m}^3$, the ambient impact for that chemical also cannot exceed the chemical specific ITSL.
- 2 The combined ambient impact of all forms of xylene with Note #2 cannot exceed the initial threshold screening level (ITSL) of 390 $\mu\text{g}/\text{m}^3$ (annual average).
- 3 These chemicals are very likely to meet the R 336.1103(c) definition of a carcinogen. The Air Quality Division has not evaluated the data to develop an IRSL/SRSL.
- 4 The combined ambient impact of all subtilisins cannot exceed the ITSL of 0.02 $\mu\text{g}/\text{m}^3$ (1-hour average).
- 5 The polycyclic aromatic hydrocarbons (PAHs) with this footnote are carcinogenic and have relative potency factors (RPFs) to that of benzo(a)pyrene(CAS # 50-32-8). Air emission mixtures of carcinogenic PAHs, including asphalt fumes, should be evaluated additively using these RPFs and the benzo(a)pyrene IRSL and SRSL.
- 6 The ITSL applies to pure tungsten carbide only. The ITSL for cemented tungsten carbide having a Co content >2%, based on the ITSL for cobalt, is 0.2 $\mu\text{g}/\text{m}^3$ based on an 8 hour averaging time. The IRSL for cemented tungsten carbide having a Co content <2% and a Ni content >0.3%, based on the IRSL for nickel, is 0.0042 $\mu\text{g}/\text{m}^3$, based on an annual averaging time.
- 7 Besides the assessment of mercury ambient air impacts in comparison to the ITSLs, larger individual sources of mercury emissions undergoing permit review (e.g., greater than 5 to 10 lbs/yr) may be evaluated on a case-by-case basis to address concerns for deposition and bioaccumulation, taking into account site-specific factors such as the presence of nearby recreational fisheries and realistic exposure scenarios.
- 8 Alternate screening levels may be determined on a case-by-case basis depending on the source of PCB emissions and which PCB isomers are being emitted following EPA's guidance as described in IRIS.
- 9 The combined ambient impacts of sulfuric acid, sulfur trioxide and oleum cannot exceed the ITSLs.
- 10 The combined ambient impact of these glycol ethers must be evaluated together so that their hazard index does not exceed a value of one.
- 11 The combined ambient impact of all petroleum hydrocarbon materials with Note #11 cannot exceed the ITSL of 50 $\mu\text{g}/\text{m}^3$ (8-hour average). If a chemical with this footnote has an ITSL other than 50 $\mu\text{g}/\text{m}^3$, the ambient impact for that chemical also cannot exceed the chemical specific ITSL.
- 12 The combined ambient impact of DDT, p,p'-DDE and DDD that have Note #12 cannot exceed the IRSL of 0.01 $\mu\text{g}/\text{m}^3$ (annual average) or SRSL of 0.1 $\mu\text{g}/\text{m}^3$ (annual average).
- 13 This chemical has two ITSLs with different averaging times. Ambient air impacts cannot exceed either ITSL. Both ITSLs also apply for determinations of permit to install exemptions under R336.1290 (Rule 290).
- 14 The combined ambient impacts for the isomers of trimethylbenzene, or any mixture thereof, cannot exceed the screening level(s).
- 15 The combined impact of t-butyl acetate and t-butanol must be evaluated together so that the hazard index does not exceed a value of one.
- 16 The asbestos IRSL and SRSL are based on a conservative conversion from the EPA-IRIS unit risk factor and one-in-one million cancer risk estimate of 4 E-6 fibers/mL (or 4 fibers/ m^3), to the units of $\mu\text{g}/\text{m}^3$. Less restrictive screening levels may be derived on a case-by-case basis depending on the fiber density, as discussed in the EPA-IRIS database.

Screening Level Footnotes

- 17 See specific trivalent and hexavalent chromium compounds.
- 18 The combined ambient impact of turpentine and monoterpenes (a-pinene, b-pinene, and d-carene) listed with Note #18 cannot exceed the ITSL of 1120 $\mu\text{g}/\text{m}^3$ (8 hr. averaging time).
- 19 If the 4,6-dimethyl-2-heptanone is present as a component of commercial or technical grade diisobutyl ketone or DIBK (CAS # 108-83-8), then the ITSL of 0.1 $\mu\text{g}/\text{m}^3$ for 4,6-dimethyl-2-heptanone does not apply. In this case, the combined impacts of the 4,6-dimethyl-2-heptanone, and DIBK cannot exceed the screening level for DIBK of 1500 $\mu\text{g}/\text{m}^3$ (8-hour average).
- 20 The combined ambient impact of meta-tolualdehyde (CAS No. 620-23-5) and para-tolualdehyde (CAS No. 104-87-0) cannot exceed the ITSL of 440 $\mu\text{g}/\text{m}^3$ with annual averaging time.
- 21 This chemical is very likely to meet the R336.1103(c) definition of a carcinogen. The Air Quality Division has evaluated the data and determined it to be inadequate for IRSL/SRSL development. However, the ITSL provides adequate protection against potential cancer effects.
- 22 The combined ambient impact of butane (CAS # 106-97-8) and isobutane (CAS # 75-28-5) should be evaluated together so that the combined impact does not exceed a hazard index value of one.
- 23 The combined ambient impact of all propylene glycol n-butyl ethers (CAS nos. 5131-66-8, 15821-83-7, 29387-86-8, and 63716-40-5) cannot exceed the ITSL of 77 $\mu\text{g}/\text{m}^3$ (annual average).
- 24 The combined ambient impact of all chemicals with footnote #24 cannot exceed the ITSL of 93 $\mu\text{g}/\text{m}^3$ (annual average).
- 25 The combined ambient impact of all chemicals with footnote #25 cannot exceed the ITSL of 5600 $\mu\text{g}/\text{m}^3$ (annual average).
- 26 This toxic air contaminant (TAC) is reasonably anticipated to exist as a particle in the ambient air. A toxicological review has determined that, in lieu of setting a screening level, the primary NAAQS for particulate matter (PM_{2.5}, PM₁₀) are reasonable and appropriate health protective levels for the particulate. The combined ambient impact of all particulate TAC emissions from the process must be below the applicable PM primary NAAQS (PM_{2.5}, PM₁₀). The PM primary NAAQS for particulate matter may be used in permit to install exemption determinations for this TAC under Rule 290(2)(a)(iii) or Rule 291.
- 27 The combined ambient impact of dimethyl adipate (CAS# 627-93-0), dimethyl glutarate (CAS# 1119-40-0), and dimethyl succinate (CAS# 106-65-0), and the mixture of dimethyl adipate, dimethyl glutarate, and dimethyl succinate collectively known as dibasic ester (CAS# 95481-62-2) cannot exceed the ITSL of 1 $\mu\text{g}/\text{m}^3$ with annual averaging time.
- 28 The combined ambient impact of all amorphous silica compounds with the CAS nos. 60676-86-0, 61790-53-2, 69012-64-2, 112945-52-5, and 112926-00-8 cannot exceed the ITSL of 60 $\mu\text{g}/\text{m}^3$ (8-hour averaging time).
- 29 The ITSL for manganese is 0.3 $\mu\text{g}/\text{m}^3$ with an annual averaging time. This ITSL is most appropriately applied to PM₁₀-Mn or PM_{2.5}-Mn data rather than TSP-Mn data. This ITSL applies to "manganese and manganese compounds," therefore emissions of multiple forms of manganese must be accounted for additively to ensure that the combined ambient air impact does not exceed the manganese ITSL. This ITSL applies to ambient air impacts of the manganese atom, therefore the emissions and modeled impacts of various manganese compounds may be molecular weight-adjusted to the equivalent emission rate and ambient air impact of the manganese alone. Please note that potassium permanganate (CAS# 7722-64-7) also has a short-term ITSL = 0.6 $\mu\text{g}/\text{m}^3$ (8 hour averaging time).
- 30 The ITSL for mixed cresols (CAS# 1319-77-3) also applies to o-cresol (CAS# 95-48-7), p-cresol (CAS# 106-44-5), and m-cresol (CAS# 108-39-4).

Screening Level Footnotes

- 31 Most processes that emit crystalline silica are exempt from the screening level requirement of Rule 225(1). Only sources of crystalline silica that are not exempt from the definition of a toxic air contaminant (see Rule 120(f)(XVI)) need to comply with the ITSL.
- 32 The Chemical Abstract Service number (CAS#) has been changed to 12185-10-3. Since the original number 7723-14-0, is still used by many organizations, it is listed as the primary CAS#.
- 33 With regards to the health-based screening levels for tetrachlorodibenzo(p) dioxin (CAS# 1746-01-6), Rule 336.1225(6)(a) states that all polychlorinated dibenzodioxins and dibenzofurans shall be considered as one toxic air contaminant, expressed as an equivalent concentration of 2,3,7,8-tetrachlorodibenzo(p)dioxin based on the relative potency of the isomers emitted from the emission unit or units. The current toxic equivalency factors (TEFs) for use are those recommended by the World Health Organization (WHO, 2005), as provided in: Van den Berg, M. et al. 2006. The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds. Toxicological Sciences 93(2): 223-241.
- 34 The combined ambient impact of all selenium and inorganic selenium compounds with the CAS# 7446-08-4, 7446-34-6, 7488-56-4, 7783-00-8, 10102-18-8, and 13410-01-0 cannot exceed 2 ug/m³ (8-hour averaging time).
- 35 The combined ambient impact of all barium and soluble barium compounds with the CAS# 543-80-6, 1304-28-5, 10022-31-8, 10361-37-2, 10553-31-8, 13477-00-4, 13718-50-8, 17194-00-2, and 2110--95-5 cannot exceed 5 ug/m³ (8-hour averaging time).
- 36 The combined ambient impact of these chlorosilanes must be evaluated together so that their hazard index (HI) does not exceed a value of one (1).
- 37 The combined ambient impact of diglycol amine (CAS# 929-06-6) and diethanolamine (CAS# 111-42-2) should be evaluated so that the combined impact does not exceed a hazard index value of one.
- 38 The combined ambient impact of magnesium (CAS No. 7439-95-4) and magnesium compounds, magnesium hydroxide, magnesium oxide, and magnesium nitrate (CAS Nos. 1309-42-8, 1309-48-4, and 10377-60-3, respectively), cannot exceed the ITSL of 100 ug/m³ (8-hour average).
- 39 The combined ambient impact of ammonia (CAS no. 7664-41-7) and ammonium hydroxide (CAS no. 1336-21-6) must be evaluated together so that their hazard index does not exceed the value of one (1).
- 40 The combined ambient impact of trimethyl borate (CAS # 121-43-7), boron oxide (CAS# 1303-86-2), sodium perborate (CAS# 7632-04-4), and boric acid (CAS# 10043-35-3) should be evaluated so that the combined impact does not exceed a hazard index value of one.
- 41 The combined ambient impact of sodium fluoride (CAS# 7681-49-4), potassium fluoride (CAS# 7789-23-3), sodium aluminum fluoride (CAS# 15096-52-3), and sodium silicofluoride (CAS# 16893-85-9) should be evaluated so that the combined impact does not exceed a hazard index value of one.
- 42 The combined ambient impact of cobalt and cobalt compounds that release cobalt ions with the CAS# 71-48-7, 136-52-7, 513-79-1, 814-89-1, 1002-88-6, 1307-96-6, 1308-06-1, 1317-42-6, 1560-69-6, 7440-48-4, 7646-79-9, 10026-24-1, 10141-05-6, 21041-93-0, and 61789-51-3 cannot exceed the ITSL of 0.2 ug/m³ (8-hour averaging time) and the IRSL of 0.00013 ug Co/m³ or SRSL of 0.0013 ug Co/m³ (annual averaging time).
- 43 The default screening level for this chemical has been rescinded because it may not be health protective. This chemical will be evaluated on a case by case basis until chemical specific toxicity information is available to derive a screening level.
- 44 The combined impact of all kerosene-type petroleum distillates cannot exceed the acute ITSL of 2000 µg/m³ (8-hour averaging time) and the chronic ITSL of 200 µg/m³ (annual averaging time). All kerosene impacts are to be combined with the impacts of all petroleum hydrocarbon materials with footnote #1, and the total of these impacts cannot exceed the ITSL of 3500 µg/m³ (8-hour averaging time).