



Ohio Administrative Code Rule 3745-114-01 Toxic air contaminants.

Effective: August 15, 2024

Except where exempt under division (F)(4) of section 3704.03 of the Revised Code, the director may require a permit-to-install, issued in accordance with Chapter 3745-31 of the Administrative Code, for any new or modified air contaminant sources that emit a toxic air contaminant that presents, or may present, through inhalation or other routes of exposure, a threat of adverse human health effects, including, but not limited to, substances that are known to be, or may reasonably be anticipated to be, carcinogenic, mutagenic, teratogenic, or neurotoxic, that cause reproductive dysfunction, or that are acutely or chronically toxic, or a threat of adverse environmental effects whether through ambient concentrations, bioaccumulation, deposition, or otherwise, and that is identified in this rule.

Toxic air contaminant	CAS Number
acetaldehyde	00075-07-0
acetamide	00060-35-5
acetonitrile	00075-05-8
acetophenone	00098-86-2
acetylaminofluorene, 2-	00053-96-3
acetylene tetrabromide	00079-27-6
acrolein	00107-02-8
acrylamide	00079-06-1
acrylic acid	00079-10-7
acrylonitrile	00107-13-1
aldrin	00309-00-2
allyl chloride	00107-05-1
allylamine	00107-11-9
aluminum & compounds, as Al; Metal dust; Pyro powders Soluble salts; Alkyls (NOS)	07429-90-5
aluminum oxide	01344-28-1
aminodiphenyl, 4-	00092-67-1
aminopyridine, 2-	00504-29-0
amitrole	00061-82-5



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ammonia (anhydrous)	07664-41-7
ammonium perfluorooctanoate	03825-26-1
aniline	00062-53-3
anisidine, ortho-	00090-04-0
anisidine, para-	00104-94-9
antimony compounds, as Sb	07440-36-0
antimony hydride	07803-52-3
antimony trioxide	01309-64-4
arsenic compounds, as As	07440-38-2
arsine	07784-42-1
atrazine	01912-24-9
aziphos-methyl	00086-50-0
barium & compounds, as Ba	07440-39-3
benzene	00071-43-2
benzidine (& dyes metabolized to benzidine)	00092-87-5
benzotrichloride	00098-07-7
benzoyl chloride	00098-88-4
benzyl chloride	00100-44-7
beryllium compounds, as Be	07440-41-7
biphenyl, 1,1-	00092-52-4
bis(chloromethyl)ether (BCME)	00542-88-1
bromine	07726-95-6
bromine pentafluoride	07789-30-2
bromoform	00075-25-2
bromopropane, 1-	00106-94-5
butadiene, 1,3-	00106-99-0
butyl acrylate, n-	00141-32-2
butyl mercaptan, n-	00109-79-5
butyl toluene, p-tert-	00098-51-1
cadmium compounds, as Cd	07440-43-9
calcium cyanamide	00156-62-7
captan	00133-06-2
carbaryl	00063-25-2



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carbon disulfide	00075-15-0
carbon tetrabromide	00558-13-4
carbon tetrachloride	00056-23-5
carbonyl fluoride	00353-50-4
carbonyl sulfide	00463-58-1
catechol	00120-80-9
chloramben	00133-90-4
chlordane	00057-74-9
chlorine	07782-50-5
chlorine dioxide	10049-04-4
chlorine trifluoride	07790-91-2
chloroacetic acid	00079-11-8
chloroacetophenone, 2-	00532-27-4
chlorobenzene	00108-90-7
chlorobenzilate	00510-15-6
chloroform	00067-66-3
chloromethyl methyl ether	00107-30-2
chloroprene, beta-	00126-99-8
chromium and inorganic compounds, as Cr; metal and Cr III compounds; water-soluble Cr VI compounds; insoluble Cr VI compounds	07440-47-3
cobalt (& cobalt compounds), as Co	07440-48-4
coke oven emissions	*
copper fume; dusts and mists, as Cu	07440-50-8
cresol meta-	00108-39-4
cresol ortho-	00095-48-7
cresol para-	00106-44-5
cresols / cresylic acid, all isomers	01319-77-3
cumene	00098-82-8
cyanides, free (IRIS) & compounds (HAP)	00057-12-5
cyanogen	00460-19-5
cyanogen chloride	00506-77-4
cyclohexane	00110-82-7



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cyclonite	00121-82-4
D 2,4-, salts and esters	00094-75-7
DDE	03547-04-4
decaborane	17702-41-9
Di (2-ethylhexyl) phthalate (DEHP)	00117-81-7
diazomethane	00334-88-3
diborane	19287-45-7
dibromo-3-chloropropane, 1,2- (DBCP)	00096-12-8
dibutyl phenyl phosphate	02528-36-1
dibutyl phthalate	00084-74-2
dichloro-2-butene, 1,4-	00764-41-0
dichloroacetylene	07572-29-4
dichlorobenzene (para), 1,4-	00106-46-7
dichlorobenzene, 1,2- (o-dichlorobenzene)	00095-50-1
dichlorobenzidine, 3,3'-	00091-94-1
dichlorodiphenyl trichloroethane, p,p'- (DDT)	00050-29-3
dichloroethane, 1,1-	00075-34-3
dichloroethyl ether	00111-44-4
dichloromethane (methylene chloride)	00075-09-2
dichloropropene, 1,3- (technical grade)	00542-75-6
dichlorvos (DDVP)	00062-73-7
dieldrin	00060-57-1
diethanolamine	00111-42-2
diethyl aniline n,n-	00091-66-7
diethyl sulfate	00064-67-5
diethylene triamine	00111-40-0
dimethoxybenzidine, 3,3- (dianisidine, ortho-)	00119-90-4
dimethyl aminoazobenzene, 4- (or para-)	00060-11-7
dimethyl benzidine, 3,3'-	00119-93-7
dimethyl carbamoyl chloride	00079-44-7
dimethyl sulfate	00077-78-1
dimethylaniline (N,N-dimethylaniline)	00121-69-7



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dimethylformamide, n,n-	00068-12-2
dimethylhydrazine, 1,1-	00057-14-7
dimethylphthalate	00131-11-3
dinitrobenzene	25154-54-5
dinitrobenzene, 1,4-p	00100-25-4
dinitrobenzene, 1,3-m	00099-65-0
dinitrobenzene, 1,2-o	00528-29-0
dinitro-o-cresol, 4,6-, & salts	00534-52-1
dinitrophenol, 2,4-	00051-28-5
dinitrotoluene, 2,4-	00121-14-2
dioxane 1,4- (1,4-diethyleneoxide)	00123-91-1
dioxathion	00078-34-2
dioxolane, 1,3-	00646-06-0
diphenylamine	00122-39-4
diphenylhydrazine, 1,2-	00122-66-7
epichlorohydrin	00106-89-8
ethyl acrylate	00140-88-5
ethyl benzene	00100-41-4
ethyl carbamate (urethane)	00051-79-6
ethyl chloride (chloroethane)	00075-00-3
ethyl mercaptan	00075-08-1
ethylene chlorohydrin	00107-07-3
ethylene dibromide	00106-93-4
ethylene dichloride (dichloroethane, 1,2-)	00107-06-2
ethylene glycol	00107-21-1
ethylene imine (aziridine)	00151-56-4
ethylene oxide	00075-21-8
ethylene thiourea	00096-45-7
ethylidene dichloride (1,1-dichloroethane)	00075-34-3
fluorine	07782-41-4
formaldehyde (gas)	00050-00-0
formic acid	00064-18-6
glycol ethers	*



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glyoxal	00107-22-2
heptachlor	00076-44-8
heptachlor epoxide	01024-57-3
hexachlorobenzene (HCB)	00118-74-1
hexachlorobutadiene	00087-86-3
hexachlorocyclopentadiene	00077-47-4
hexachloroethane	00067-72-1
hexachloronaphthalene	01335-87-1
hexafluoroacetone	00684-16-2
hexamethyl phosphoramidate	00680-31-9
hexamethylene diisocyanate	00822-06-0
hexane, n-	00110-54-3
hexylene glycol	00107-41-5
hydrazine	00302-01-2
hydrogen chloride	07647-01-0
hydrogen cyanide salts, as CN	00592-01-8
hydrogen cyanide, as CN (hydrocyanic acid)	00074-90-8
hydrogen fluoride, as F	07664-39-3
hydrogen selenide	07783-07-5
hydrogen sulfide	07783-06-4
hydroquinone	00123-31-9
hydroxypropyl acrylate, 2-	00999-61-1
indene	00095-13-6
indium & compounds, as In	07440-74-6
isophorone	00078-59-1
isophorone diisocyanate	04098-71-9
isopropoxyethanol, 2-	00109-59-1
isopropylamine	00075-31-0
isopropylaniline, N-	00768-52-5
ketene	00463-51-4
lead & inorganic compounds, as Pb	07439-92-1
lindane (all isomers)	00058-89-9
lithium hydride	07580-67-8



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maleic anhydride	00108-31-6
manganese & inorganic compounds, as Mn	07439-96-5
malathion	00121-75-5
mercury; Alkyl compounds; Aryl compounds; elemental & inorganic forms, as Hg	07439-97-6
methanol	0067-56-1
methoxychlor	00072-43-5
methyl aniline, N-	00100-61-8
methyl bromide	00074-83-9
methyl chloride	00074-87-3
methyl chloroform	00071-55-6
methyl hydrazine	00060-34-4
methyl iodide (iodomethane)	00074-88-4
methyl isobutyl ketone (MIBK)	00108-10-1
methyl isocyanate	00624-83-9
methyl isopropyl ketone	00563-80-4
methyl mercaptan	00074-93-1
methyl methacrylate	00080-62-6
methyl styrene, alpha-	00098-83-9
methyl tert-butyl ether (MTBE)	01634-04-4
methyl vinyl ketone	00078-94-4
methylamine	00074-89-5
methylene bis(2-chloroaniline), 4,4- (MBOCA; MOCA)	00101-14-4
methylene dianiline, 4,4-	00101-77-9
methylene diphenyl diisocyanate (monomeric MDI)	00101-68-8
mineral fibers, fine	*
Mirex	02385-85-5
molybdenum, as Mo; soluble compounds, metals and insoluble compounds	07439-98-7
naphthalene	00091-20-3
naphthylamine, 2- or B-	00091-59-8
nickel carbonyl	13463-39-3



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nickel, as Ni; elemental; soluble inorganic compounds; insoluble inorganic compounds (NOS); nickel subsulfide, as Ni	07440-02-0
nitric acid	07697-37-2
nitroaniline, para-	00100-01-6
nitrobenzene	00098-95-3
nitrodiphenyl, 4-	00092-93-3
nitrophenol, 4-	00100-02-7
nitropropane, 2-	00079-46-9
nitrosodimethylamine, n-	00062-75-9
nitrosomorpholine, n-	00059-89-2
nitroso-n-methylurea, n-	00684-93-5
octachlorostyrene	29082-74-4
osmium tetroxide	20816-12-0
parathion	00056-38-2
pentaborane	19624-22-7
pentachloronaphthalene	01321-64-8
pentachloronitrobenzene	00082-68-8
pentachlorophenol	00087-86-5
pentyl acetate, all isomers	00620-11-1
perchloromethyl mercaptan	00594-42-3
perchloryl fluoride	07616-94-6
phenol	00108-95-2
phenylenediamine, para-	00106-50-3
phenylhydrazine	00100-63-0
phenylphosphine	00638-21-1
phosgene	00075-44-5
phosphine	07803-51-2
phosphoric acid	07664-38-2
phosphorus	07723-14-0
phosphorus oxychloride	10025-87-3
phosphorus trichloride	07719-12-2
phosphorus pentachloride	10026-13-8
phosphorus pentasulfide	01314-80-3



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phthalic anhydride	00085-44-9
platinum metal and soluble salts, as Pt	07440-06-4
polychlorinated biphenyls (PCBs, arcolors)	01336-36-3
polychlorinated dibenzofurans (furans)	00132-64-9
polycyclic organic matter (POM)	*
polymeric methylene diphenyl diisocyanate (PMDI)	09016-87-9
propane sultone, 1,3-	01120-71-4
propionlactone, beta-	00057-57-8
propionaldehyde	00123-38-6
propoxur	00114-26-1
propylene dichloride	00078-87-5
propylene glycol dinitrate	06423-43-4
propylene oxide	00075-56-9
propylenimine (methyl aziridine, 2-)	00075-55-8
quinoline	00091-22-5
quinone	00106-51-4
radionuclides	*
selenium & compounds, as Se	7782-49-2
selenium hexafluoride	07783-79-1
silver metal and soluble compounds, as Ag	07440-22-4
sodium hydroxide	01310-73-2
stoddard solvent	08052-41-3
styrene oxide	00096-09-3
styrene, monomer	00100-42-5
subsilisins	09014-01-1
sulfur tetrafluoride	07783-60-0
sulfuric acid	07664-93-9
tellurium hexafluoride	07783-80-4
tetrachlorodibenzo-p-dioxin, 2,3,7,8-	01746-01-6
tetrachloroethane, 1,1,2,2-	00079-34-5
tetrachloroethylene (perchloroethylene)	00127-18-4
tetrafluoroethylene	00116-14-3



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tetramethyl succinonitrile	03333-52-6
tetranitromethane	00509-14-8
tin metal, oxide & inorganic compounds, as Sn; Organic compounds	07440-31-5
titanium tetrachloride	07550-45-0
toluene	00108-88-3
toluene-2,4-diamine	00095-80-7
toluene-2,4-diisocyanate or 2,6-diisocyanate (or as a mixture)	00584-84-9; 00091-08-7
toluidine, o-	00095-53-4
toxaphene	08001-35-2
trichlorobenzene, 1,2,4-	00120-82-1
trichloroethane, 1,1,2-	00079-00-5
trichloroethylene	00079-01-6
trichlorophenol, 2,4,5-	00095-95-4
trichlorophenol, 2,4,6-	00088-06-2
trichloropropane, 1,2,3-	00096-18-4
triethylamine	00121-44-8
trifluralin	01582-09-8
trimellitic anhydride	00552-30-7
trimethylpentane, 2,2,4- (isooctane)	00540-84-1
trinitrotoluene, 2,4,6-	00118-96-7
triorthocresyl phosphate	00078-30-8
vanadium pentoxide, as V ₂ O ₅ dust or fume	01314-62-1
vinyl acetate	00108-05-4
vinyl bromide	00593-60-2
vinyl chloride	00075-01-4
vinyl cyclohexene, 4-	00100-40-3
vinyl fluoride	00075-02-5
vinyl-1-cyclohexene dioxide, 4-	00106-87-6
vinylidene chloride	00075-35-4
xylenes	01330-20-7
xylenes, m-,	00108-38-3
xylenes, o-	00095-47-6



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xylenes, p-	00106-42-3
zinc chloride fume	07646-85-7
zinc oxide	01314-13-2

* = No CAS number available