NOTE

This document contains the Connecticut regulations for the abatement of air pollution with the recently adopted revisions to the regulations that became effective April 4, 2006. This document was prepared by the State of Connecticut Department of Environmental Protection and is provided for the convenience of the reader. This is not the official version of the regulations. The official regulations are published by the State of Connecticut, Judicial Branch, Commission on Official Legal Publications in the Connecticut Law Journal. Official legal publications may by obtained from the Commission on Official Legal Publications, 111 Phoenix Ave Enfield, CT 06082 (telephone: (860) 741-3027, or www.jud.state.ct.us/colp/ColpDefault.htm**). In the event there is an inconsistency between this document and the regulations as published in the Connecticut Law Journal, the Connecticut Law Journal will serve as the official version.**

Section 22a-174-29. "Hazardous Air Pollutants"

(a) "Hazard Limiting Values" and "Ambient Air Quality Standards"

(a)(1) "Hazard Limiting Values" (HLV)'s for "Hazardous Air Pollutants" for 8-hour and 30-minute averaging times are listed in Tables 29-1, 29-2, and 29-3. "Ambient Air Quality Standards" (AAQS) are listed in section 22a-174-24.

(a)(2) For a "hazardous air pollutant" or other "air pollutant" for which either a "HLV" or an "AAQS" has not yet been established by the "Commissioner," the "Commissioner" may request the Commissioner of Health Services to propose changes to Tables 29-1, 29-2 or 29-3 or to section 22a-174-24, to provide supporting documentation for his selection, and to submit it for review by the "Hazardous Air Pollutant Advisory Panel" within ninety (90) days of receipt of the request of the "Commissioner."

(a)(3) The "Commissioner" shall request the "Panel" to review the proposal and supporting documentation and to make a recommendation to the "Commissioner" to approve, modify or decline to accept the proposal within ninety (90) days of receipt. Within sixty (60) days of receipt of the recommendation of the "Panel," the "Commissioner" shall announce a hearing for a new "HLV" to be included in Tables 29-1, 29-2, or 29-3 or "AAQS" for section 22a-174-24.

(b) Maximum Allowable Stack Concentrations.

(1) On or after October 1, 1986, no person shall cause or permit the emission of any hazardous air pollutant listed in Table 29-1 from any stationary source at a concentration at the discharge point in excess of the maximum allowable stack concentration, unless the stationary source is operating in accordance with the terms of an order or permit of the commissioner specifically allowing the continued operation of the stationary source in violation of this subdivision while coming into compliance or the source is in compliance with the provisions of subsection (d)(3) of this section.

(2) No person, who is required to obtain a permit under section 22a-174-3a of the Regulations of Connecticut State Agencies or, who, between July 1, 1986 and March 15, 2002, should have applied for and obtained a permit under former section 22a-174-3 of the Regulations of Connecticut State Agencies, shall cause or permit the emission of any hazardous air pollutant from any stationary source or modification at a concentration at the discharge point

in excess of the maximum allowable stack concentration unless such source is in compliance with the provisions of subsection (d)(3) of this section. The commissioner shall not apply the provisions of this subdivision to the owner or operator of any stationary source who applied for a permit to construct under former section 22a-174-3 of the Regulations of Connecticut State Agencies prior to March 1, 1986 and who received a notice of a complete application prior to July 1, 1986 or to any other owner or operator who received a permit to construct prior to July 1, 1986. Notwithstanding the foregoing, all resources recovery facilities and all incinerators shall meet the standards of this subdivision for all hazardous air pollutants.

(3) If the owner or operator of a stationary source that emits or may emit a hazardous air pollutant is in compliance with the MASC at the discharge point of that source, but the commissioner determines, through ambient monitoring, that the HLV is exceeded, then the commissioner may require that the concentration of the hazardous air pollutant at the discharge point be further reduced.

(4) The owner or operator of any stationary source or modification not subject to the provisions of subdivision (2) of this subsection that emits or may emit a hazardous air pollutant shall comply with the requirements of subdivision (2) of this subsection if the commissioner determines, through ambient monitoring, that the HLV is exceeded as a result of the emissions from that stationary source.

(5) For the purposes of subdivisions (3) and (4) of this subsection, any person who performs ambient air monitoring shall use methods and procedures approved by the commissioner.

(c) Determination of "Maximum Allowable Stack Concentrations"

(c)(1) The "maximum allowable stack concentration" of a "hazardous air pollutant" (in micrograms per cubic meter or parts per million) at the "discharge point" of a "stationary source" shall be determined as follows:

(A) If the "discharge point" is twenty (20) meters or less measured vertically from the ground elevation at the "discharge point," the "MASC" shall be:

$$\frac{0.885\ \mathrm{HLV}\ (X + 1.08V_0^{.64})^{1.56}}{V_0} \qquad [1]$$

Where "HLV" is the applicable "hazard limiting value" (in either micrograms per cubic meter or parts per million for 8-hour and 30-minute averaging times), "V_0" is the average actual flow rate (in actual cubic meters per second) from the "discharge point," and "X" is ten (10) meters, or the distance from the "discharge point" to the closest property line, whichever is greater.

(B) If the "discharge point" is more than twenty (20) meters measured vertically from the ground elevation at the "discharge point," the "maximum allowable stack concentration" ("MASC") shall be:

$$\frac{0.885HLV\ (x_{max} + 1.08V_0^{0.64})^{1.56} \exp[10.33(H - 20)^2(x_{max} + 1.08V_0^{0.64})^{-1.56}]}{V_0} \quad [2]$$

Where "HLV" is the applicable "hazard limiting value" (in micrograms per cubic meter or parts per million) for 8-hour and 30-minute averaging times, "V_0" is the average actual flow rate (in actual cubic meters per second) from the "discharge point," "H" is the height (in meters) of the "discharge point", measured vertically from the ground elevation at the "discharge point" and "Xmax" is the greater of the following distances:

(i) ten (10) meters

(ii) the closest distance, in meters, from the "discharge point" to the property line, or

(iii) the distance, in meters, determined by:

$$4.47(H - 20)^{1.28} \quad [3]$$

Where "H" is the height (in meters) of the "discharge point" measured vertically from the ground elevation at the discharge point.

(c)(2) For the purposes of this subsection, in determining the distance from the "discharge point" to the property line the "Commissioner" may allow consideration for any "watercourse" adjacent to the property in question. The

"Commissioner" may allow the use of the opposite shore in determining the closest distance to the property line.

(d) Ambient Air Quality Standards.

(1) The provisions of this subsection apply to any stationary source that emits an air pollutant for which there is an ambient air quality standard ("AAQS") found in section 22a-174-24 of the Regulations of Connecticut State Agencies except for any criteria air pollutant other than lead.

(2) If the source complies with the MASC and there is an applicable AAQS, then the owner or operator shall not cause or exacerbate a violation of the applicable AAQS unless the impact of the source is less than significant as listed in Table 3a(i)-1 set forth in section 22a-174-3a(i) of the Regulations of Connecticut State Agencies.

(3) If the source does not comply with the MASC and there is an applicable AAQS, then the owner or operator shall:

(A) Install and use Best Available Control Technology for the applicable hazardous air pollutant; and

(B) Not cause an impact in excess of the applicable AAQS if such impact is significant as listed in Table 3a(i)-1 set forth in section 22a-174-3a(i) of the Regulations of Connecticut State Agencies.

(4) Upon the request of the commissioner, the owner or operator of any stationary source shall make and submit to the commissioner, for his approval, a BACT determination for each hazardous air pollutant for which an AAQS has been set, as required by the commissioner, including costs estimates of all control options as may be specified by the commissioner.

(5) For the purposes of this subsection, the commissioner shall allow the use of only air quality models, data bases or other requirements approved by the commissioner prior to the determination of compliance with the AAQS.

(e) Sampling for Hazardous Air Pollutants.

(1) Testing to determine concentrations of hazardous air pollutants in the ambient air contiguous to a source may be required if the commissioner determines that the operation of a source might reasonably be expected to cause an exceedance of an applicable HLV or AAQS.

(2) In addition to any testing required by section 22a-174-5(e)(2) of the Regulations of Connecticut State Agencies, testing to determine concentrations of hazardous air pollutants at discharge points of sources may be required by the commissioner

if:

(A) An exceedance of a HLV with an 8-hour averaging time is observed;

(B) Two (2) or more exceedances of a HLV with a 30-minute averaging time are observed within two (2) non-overlapping 8-hour periods within any seven (7)-day period;

(C) The source is required to meet the requirements of subdivision (b)(2) of this section;

(D) The emissions from a source are suspected of causing a violation of an AAQS;

(E) There is an enforcement action for violation of section 22a-174-20 or 22a-174-23 of the Regulations of Connecticut State Agencies; or

(F) The source is suspected of emitting a hazardous air pollutant listed in Table 29-1.

(3) Testing to determine concentrations of hazardous air pollutants at either discharge points of stationary sources or in the ambient air shall be conducted by the commissioner, the commissioner's authorized representative or by persons qualified by training or experience in the field of sampling emissions from air pollution sources or in the ambient air. All sampling, emissions testing and laboratory analyses shall be done using procedures and techniques approved by the commissioner prior to the commencement of such testing.

(4) In addition to the provisions of subdivision (1) of this subsection, the commissioner shall perform testing for dioxin emissions in the ambient air in accordance with the requirements of this subdivision. The commissioner shall perform the following tests in the area of any resources recovery facility. The tests shall be representative of conditions existing prior to the commencement of operation and representative of conditions existing after the issuance of the permit to operate.

(A) For tests representative of conditions existing prior to the commencement of operation for each subject resources recovery facility the commissioner shall analyze at a minimum a total of eight (8) samples. At a minimum, such tests shall consist of the collection of samples at four locations deemed representative by the commissioner during four distinct time periods and the analysis of two samples for each time period for a total of eight samples. The commissioner shall make every effort to perform such testing once per calendar quarter prior to the commencement of operation.

(B) For tests representative of conditions existing after the issuance of a permit under section 22a-174-3a of the Regulations of Connecticut State Agencies for each subject resources recovery facility the commissioner shall analyze at a minimum a total of eight (8) samples. At a minimum, such tests shall consist of the collection of samples at four locations deemed representative by the commissioner during four distinct time periods and the analysis of two representative samples per calendar quarter for the first year following issuance of a permit under section 22a-174-3a of the Regulations of Connecticut State Agencies. Based upon an analysis of the ambient data, results of stack tests, data from the continuous emission monitors and other pertinent information, the commissioner shall determine a representative ambient sampling program for subsequent years. The commissioner shall provide notice of this determination to the chief elected official of each town participating in the subject resources recovery facility.

(f) Reporting Requirements

(f)(1) The owner or "operator" of any "stationary source" shall, upon written notice by the "Commissioner," supply him with information, for those time periods specified, concerning the usage of any substances listed in Table 29-1, 29-2, or 29-3 or the emissions of such substances into the ambient air.

(f)(2) Information required in subdivision (f)(1) shall be provided on forms issued for this purpose by the "Commissioner."

(f)(3) If the "Commissioner" deems that emissions of a "hazardous air pollutant" from a "stationary source" are likely to result in a severe and imminent health hazard, information required in subdivision (f)(1) shall be submitted by the owner or "operator" of the "stationary source" as soon as possible but not later then forty-eight (48) hours after receiving written notice from the "Commissioner." Nothing in this subdivision shall prevent the "Commissioner" from taking action in accordance with the provisions of Sec. 22a-181 C.G.S.

(f)(4) Except as provided in subdivision (f)(3), such information required in subdivision (f)(2) shall be provided by the owner or "operator" of the "stationary source" within ninety (90) days of written notice by the "Commissioner."

(g) Permits to operate a "stationary source" ordered to comply with any of the provisions of this section.

(g)(1) The "Commissioner" may require the owner or "operator" of a "stationary source" to obtain a permit to operate if he is found by the "Commissioner" not to comply with any of the provisions of subsection (b).

(h) Objectionable odors and compliance with other regulations

(h)(1) Compliance with this section by a "stationary source" does not in any manner relieve the owner or "operator" of the responsibility to comply with the provisions of section 22a-174-23 or any other section of these regulations.

(i) Adjustments to the MASC for Time Periods Less Then 8 Hours.

Notwithstanding the provisions of subsection (c), the Commissioner may allow an adjustment to the MASC for sources which emit continuously for a period of more then thirty (30) minutes but less then eight (8) hours by multiplying the MASC determined under subsection (c) by the following factor:

$$\text{Adjustment Factor} = 5 - 4\left(\frac{T - .5}{7.5}\right)$$

Where T = Number of hours the source is in continuous operation.

TABLE 29-1

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m^3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS* 8-HOUR	30-MINUTE
2-Acetylamino fluorene	53-96-3	---	---	---	---
Acrylonitrile	l07-l3-l	22	110	0.0l	0.05
Aflatoxins	832l9-44-7	---	---	---	---
.....	832l9-45-8	---	---	---	---
4-Aminodiphenyl	92-67-l	---	---	---	---
Arsenic & compounds (as As)	7440-38-2	0.05	0.25	---	---
Arsenic pentoxide	l303-28-2	---	---	---	---
Arsine	7784-42-l	l	5	0.25ppbv	l.25ppbv
Asbestos**	l332-2l-4	---	---	---	---
Auramine	2465-27-2	---	---	---	---
Azathioprine	446-86-6	---	---	---	---
Benz(a)pyrene***	50-32-8	---	---	---	---
Benzene	7l-43-2	l50	750	0.05	0.25
Benzidine	92-87-5	---	---	---	---
Beryllium	7440-4l-7	0.0l	0.05	---	---
Beryllium oxide	l304-56-9	---	---	---	---
Beryllium sulfate	l35l0-49-l	---	---	---	---
Chlorambucil	305-03-3	---	---	---	---
Chlordane	57-74-9	2.5	l2.5	---	---
Chlorinated camphene	800l-35-2	2.5	l2.5	---	---
Chlornaphthazine	494-03-l	---	---	---	---
Chlorobenzilate	5l0-l5-4	---	---	---	---
Chloroform	67-66-3	250	1,250	0.05	0.25
bis-Chloromethyl ether	542-88-l	0.0l5	0.075	5.pptv	25.pptv
Chloromethyl methyl ether	l07-30-2	---	---	---	---

* Volumetric units are in parts per million by volume, unless shown as parts per billion by volume (ppbv) or parts per trillion by volume (pptv).

** The "HLV" for asbestos (all forms, including amosite, chrysotile, crocidolite, tremolite and fibrous talc) is 500 fibers, of a length of 5 micrometers or more, per cubic meter (8-hour average) and 2,500 fibers, of a length of 5 micrometers or more, per cubic meter (30-min average).

*** See Polycyclic Aromatic Hydrocarbons

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-1, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m^3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Chromic acid and chromates (as Cr)	---	0.25	1.25	---	---
Chromite ore processing (chromate), as Cr	---	0.25	1.25	---	---
Chromium, metal	7440-47-3	2.5	12.5	---	---
Coal tar pitch volatiles	8007-45-2	l	5	---	---
Coke oven emissions	---	---	---	---	---
Cyclophosphamide	50-l8-0	---	---	---	---
Dibromochloropropane	96-l2-8	0.05	0.25	---	---
3,3'-Dichlorobenzidine	9l-94-l	---	---	---	---
l,2-Dichloroethane	l07-06-2	20	100	5.ppbv	25.ppbv
Diethylstilboestriol	390ll-86-4	---	---	---	---
Diethyl sulfate	64-67-5	---	---	---	---
4-Dimethylaminoazobenzene	60-ll-7	---	---	---	---
Dimethyl sulfate	77-78-l	2.5	12.5	0.5 ppbv	2.5 ppbv
Dioxane, technical grade	l23-9l-l	450	2,250	0.125	0.625
Estrogens	---	---	---	---	---
Ethylene dichloride	l07-06-2	20	100	5.ppbv	25.ppbv
Heptachlor	76-44-8	2.5	12.5	---	---
Hexachloroethane	67-72-l	50	250	5.ppbv	25.ppbv
Kepone	l43-50-0	---	---	---	---
Melphalan	l48-82-3	---	---	---	---
4,4'-Methylene bis (2-chloraniline)	l0l-l4-4	0.015	0.075	---	---
MOCA	l0l-l4-4	0.015	0.075	---	---
Morpholine	ll0-9l-8	350	1.750	0.1	0.5
Mustard gas	505-60-2	---	---	---	---
Myleran	55-98-l	---	---	---	---
beta-Napthylamine	9l-59-8	---	---	---	---
Nickel carbonyl, as Ni	l3463-39-3	1.75	8.75	0.25ppbv	1.25 ppbv
Nickel (metal)	7440-02-0	5	25	---	---
Nickel, soluble compounds (as Ni)*	---	0.075	0.375	---	---

* Carcinogens

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date

TABLE 29-1, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m^3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Nickel sulfide	l2035-72-2	---	---	---	---
Nickel sulfide roasting, fume	---	---	---	---	---
and dust (as Ni)	---	5	25	---	---
4-Nitrodiphenyl	92-93-3	---	---	---	---
Nitrogen mustard	55-86-7	---	---	---	---
n-Nitrosodimethylamine	62-75-9	---	---	---	---
Oxymetholone	434-07-l	---	---	---	---
Perchloroethylene**	l27-l8-4	1,700	8,500	0.25	1.25
Phenacetin	62-44-2	---	---	---	---
Polynuclear aromatic hydrocarbons (PAH)	50-32-8	0.1*	0.5*	---	---
beta-Propiolactone	57-57-8	7.5	37.5	2.5 ppbv	12.5 ppbv
l,l,2,2-Tetrachloroethane	79-34-5	34.4	172	5.ppbv	25.ppbv
Thorium dioxide	l3l4-20-l	---	---	---	---
o-Toluidine	95-53-4	45	225	0.01	0.5
Toxaphene	800l-35-2	2.5	12.5	---	---
Treosulfan	299-75-2	---	---	---	---
l,l,2-Trichloroethane	79-00-5	225	1,125	0.05	0.25
Trichloroethylene	79-0l-6	1,350	6,750	0.25	1.25
2,4,6- Trichlorophenol	88-06-2	---	---	---	---
Vinyl chloride	75-0l-4	50	250	0.025	0.125

* Benzene-soluble fraction

** Perchloroethylene has been placed in Group l provisionally, pending further research by the Department of Health Services and the "Hazardous Air Pollutant Review Panel".

Note: Dashed lines indicate that no hazard limiting value has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date

TABLE 29-2

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m^3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS* 8-HOUR	30-MINUTE
Actinomycin D……	1402-38-6	---	---	---	---
Adriamycin……	23214-92-8	---	---	---	---
Aldrin……	309-00-2	1.5	7.5	---	---
Allyl glycidyl ether……	106-92-3	220	1,100	0.05	0.25
2-Aminoanthraquinone……..	117-79-3	---	---	---	---
1-Amino-2-methylanthraquinone……..	82-28-0	---	---	---	---
3-Amino 1,2,4-triazole (amitrole)……..	61-82-5	---	---	---	---
o-Anisidine……	29191-52-4	5	25	1.ppbv	5.ppbv
Antimony trioxide, handling & use (as Sb)……	1309-64-4	5	25	---	---
Antimony trioxide production (as Sb)……	1309-64-4	5	25	---	---
Aramite……	140-57-8	---	---	---	---
Arsenic trioxide production (as As)……	1327-53-3	0.25	1.25	---	---
Benz(a)anthracene……..	56-55-3	---	---	---	---
Benzo (b)fluoranthene……	205-99-2	---	---	---	---
Benzotrichloride……..	98-07-7	---	---	---	---
Brominated biphenyls……					
Butadiene (1,3-butadiene)……	106-99-0	22,000	110,000	10	50
n-Butyl glycidyl ether (BGE)……..	2426-08-6	1,350	6,750	0.25	1.25
Cadmium……	7440-43-9	0.4	2.0	---	---
Cadmium dust & salts (as Cd)……	7440-43-9	0.4	2.0	---	---
Cadmium oxide fume (as Cd)……..	1306-19-0	1.0	5.0	---	---
Cadmium sulfate……..	10124-36-4	---	---	---	---
Carbon tetrachloride……	50-23-5	300	1,500	0.05	0.25
Chloramphenicol……..	56-75-7	---	---	---	---
1-Chloro ,2,3-epoxypropane……	106-89-8	20	100	6.ppbv	30.ppbv
bis-Chloroethyl nitrosourea (BCNU)……..	108-60-1	---	---	---	---

* Volumetric units are in parts per million by volume, unless shown as parts per billion by volume (ppbv) or parts per trillion by volume (pptv).

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-2, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m^3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS* 8-HOUR	30-MINUTE
1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea (CCNU)……	13909-09-6	---	---	---	---
Chrysene……..	218-01-9	---	---	---	---
Cisplatin……..	15663-27-1	---	---	---	---
p-Cresidine……..	120-71-8	---	---	---	---
Cupferron…….	135-20-6	---	---	---	---
Cycasin…….	14901-08-7	---	---	---	---
Dacarbazene……	4342-03-4	---	---	---	---
DDT (Dichlorodiphenyl-trichloro-ethane)…….	50-29-3	5	25		
2,4-Diaminoanisole sulfate……..	39156-41-7	---	---	---	---
Dibenz(a,h) anthracene…….	53-70-3	---	---	---	---
7H-Dibenzo(c,g) carbazole……..	194-59-2	---	---	---	---
Dibenzo(a,h) pyrene…….	189-64-0	---	---	---	---
Dibenzo(a,i) pyrene……..	189-55-9	---	---	---	---
1,2-Dibromoethane……	106-93-4	1,550	7,750	0.2	1
Dienestrol……..	84-17-3	---	---	---	---
Diepoxybutane……..	1464-53-5	---	---	---	---
Di-2,3-epoxypropyl ether……..	2238-07-5	10	50	---	---
Di(2-ethylhexyl) phthalate…….	117-81-7	50	250	---	---
3-3'-Dimethoxybenzidine…….	119-90-4	---	---	---	---
4-Dimethylaminobenzene…….	1300-73-8	100	500	0.21	0.1
3,3'-Dimethylbenzidine……	119-93-7	---	---	---	---
Dimethyl carbamoyl chloride……	79-44-7	---	---	---	---
1,1-Dimethylhydrazine……..	57-14-7	10	50	5.ppbv	25.ppbv
3,3'-Dimethoxybenzidine…….	119-90-4	---	---	---	---
Dinitrotoluene……	121-14-2	15	75	---	---
Direct Black 38…….	1937-37-7	---	---	---	---
Direct Blue 6…….	2610-05-1	---	---	---	---
Direct Brown 95……	10300-74-0	---	---	---	---

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-2, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m^3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Epichlorhydrin ……..	106-89-8	20	100	6.ppbv	30.ppbv
Ethinylestridiol…….	57-63-6	---	---	---	---
Ethylene dibromide……..	106-93-4	1,550	7,750	0.2	1
Ethylene oxide……..	75-21-8	20	100	0.01	0.05
Ethylene thiourea…….	96-45-7	---	---	---	---
Formaldehyde……	50-00-0	12	60	0.01	0.05
Hexachlorobenzene……	118-74-1	---	---	---	---
Hexachlorobutadiene…….	87-68-3	2.4	12	---	---
Hexamethyl phosphoramide……..	680-31-9	---	---	---	---
Hydrazine……..	302-01-2	1	5	1.ppbv	5.ppbv
Hydrazine sulfate……..	10034-93-2	---	---	---	---
Hydrazobenzene……	122-66-7	---	---	---	---
Indeno (1,2,3-cd) pyrene……	193-39-5	---	---	---	---
Iron dextran complex…….	9004-66-4	---	---	---	---
Isopropyl glycidyl ether (IGE)……..	4016-14-2	2,400	12,000	0.5	2.5
Lead acetate……	301-04-2	---	---	---	---
Lead chromate (as Cr)……	18454-12-1	0.5	2.5	---	---
Lead phosphate…..…….	7446-27-7	---	---	---	---
Lindane……..	58-89-9	5	25	---	---
Mestranol……..	72-33-3	---	---	---	---
4,4-Methylene dianiline……	101-77-9	8	40	1.ppbv	5.ppbv
4,4'-Methylene bis (n,n-dimethyl)…… benzenamide	101-61-1	---	---	---	---
Methyl hydrazine……..	60-34-4	---	---	---	---
Methyl iodide……	74-88-4	100	500	0.02	0.1
Metronidazole ……	443-48-1	---	---	---	---
Michler's ketone……	90-94-8	---	---	---	---
Mirex…….	2385-85-5	---	---	---	---
Monomethyl hydrazine…….	60-34-4	---	---	---	---
Nitrilotriacetic acid ……	139-13-9	---	---	---	---

* Benzene

Note: Dashed lines indicate that no "hzazrd limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-2, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m^3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
5-Nitro-o-anisidine	99-59-2	---	---	---	---
Nitrofen	1836-75-5	---	---	---	---
2-Nitropropane	79-46-9	360	1,800	0.1	0.5
Nitrosamines	---	---	---	---	---
n-Nitrosodi-n-butylamine	924-16-3	---	---	---	---
n-Nitrosodiethanolamine	1116-54-7	---	---	---	---
n-Nitrosodiethylamine	55-18-5	---	---	---	---
n-Nitrosodiphenylamine	86-30-6	---	---	---	---
n-Nitrosodi-n-propylamine	621-64-7	---	---	---	---
n-Nitrso-n-ethylurea	759-73-9	---	---	---	---
n-Nitroso-n-methylurea	684-93-5	---	---	---	---
n-Nitrosomethylvinylamine	4549-40-0	---	---	---	---
n-Nitrosomorpholine	59-89-2	---	---	---	---
n-Nitrosonornicotine	16543-55-8	---	---	---	---
n-Nitrosopiperidine	100-75-4	---	---	---	---
n-Nitrosopyrrolidine	930-55-2	---	---	---	---
n-Nitrososarcosine	20661-60-3	---	---	---	---
Norethisterone	68-22-4	---	---	---	---
Oestradiol-17-beta	2529-64-8	---	---	---	---
Oestrone	53-16-7	---	---	---	---
Phenazopyridine	94-78-0	---	---	---	---
Phenazopyridine hydrochloride	136-40-3	---	---	---	---
Phenantoin (and sodium salt)	50-12-4	---	---	---	---
Phenoxyacetic acid herbicides	---	---	---	---	---
Phenyl glycidyl ether (PGE)	122-60-1	60	300	0.01	0.05
Phenylhydrazine	100-63-0	200	1,000	0.05	0.25
Phenyl-2-naphthylamine	135-88-6	---	---	---	---
Phenytoin	57-41-0	---	---	---	---
Polybrominated biphenyls	---	---	---	---	---
Polychlorinated biphenyls: 42% Cl	53469-21-9	0.01	0.05	---	---
Polychlorinated biphenyls: 54% Cl	11097-69-1	0.01	0.05	---	---
Procarbazine Hydrochloride	366-70-1	---	---	---	---

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. the "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-2, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m^3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS* 8-HOUR	30-MINUTE
Progesterone	57-83-0	---	---	---	---
Propane sultone	1120-71-4	---	---	---	---
Propylene imine	75-55-8	50	250	0.02	0.1
Propylthiouracil	51-52-5	---	---	---	---
Resperpine	50-55-5	---	---	---	---
Saccharine	81-07-2	---	---	---	---
Safrole	94-59-7	---	---	---	---
Selenium sulfide	7446-34-6	---	---	---	---
Streptozotocin	18883-66-4	---	---	---	---
Sulfallate	95-06-7	---	---	---	---
Tetrachlorinated dibenzo-p-dioxins*	1746-01-6	---	---	---	---
Thioacetamide	62-55-5	---	---	---	---
Thiotepa	52-24-4	---	---	---	---
Thiourea	62-56-6	---	---	---	---
o-Tolidine	119-93-7	---	---	---	---
p-Toluidine	106-49-0	90	450	0.02	0.1
o-Toluidine hydrochloride	636-21-5	---	---	---	---
Triaziquone	68-76-8	---	---	---	---
Tris (1-aziridinyl) phosphine sulfide	140-56-7	---	---	---	---
Tris (2,3-dibromopropyl) phosphate	126-72-7	---	---	---	---
Uracil mustard	66-75-1	---	---	---	---
Urethane	51-79-6	---	---	---	---
Vinyl bromide	593-60-2	44	220	11.ppbv	55.ppbv
Vinyl cyclohexene dioxide	106-87-6	600	3,000	0.1	0.5
Xylidine	1330-73-8	100	500	0.02	0.1
Zinc chromate (as Cr)	13530-65-9	0.5	2.5	---	---

* The "HLV" for dioxin is 0.7 picograms per cubic meter (8-hour average). There is no "HLV" in volumetric units. Concentration is expressed in terms of 2,3,7,8 dibenzo-p-dioxin equivalents, as defined in section 22a-l74-1. There is an "ambient air quality standard" for this substance contained in section 22a-174-24.

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. the "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-3

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Acetaldehyde	75-07-0	3,600	18,000	2	10
Acetic acid	69-19-7	500	2,500	0.2	1
Acetic anhydride	108-24-7	400	2,000	0.1	0.5
Acetone	67-64-1	11,800	59,000	5	25
Acetone cyanohydrin	75-86-5	---	---	---	---
Acetonitrile	75-05-8	680	3,400	0.39	1.95
Acetylene	74-86-2	---	---	---	---
Acetylene dichloride	540-59-0	15,800	79,000	4	20
Acetylene tetrabromide	79-27-6	280	1,400	0.02	0.1
Acetylsalicylic acid	50-78-2	100	500	---	---
Acrolein	107-02-8	5	25	2.ppbv	10.ppbv
Acrylamide	79-06-1	6	30	---	---
Acrylic acid	79-10-7	600	3,000	0.2	1
Adiponitrile	111-69-3	360	1,800	0.08	0.4
Allyl alcohol	107-18-6	100	500	0.04	0.2
Allyl chloride	107-05-1	60	300	0.02	0.1
Allyl propyl disulfide	2179-59-1	240	1,200	0.04	0.2
Aluminum metal and oxide	7429-90-5	200	1,000	---	---
Aluminum pyro powder	---	100	500	---	---
Aluminum welding fumes	---	100	500	---	---
Aluminum soluble salts	---	40	200	---	---
Aluminum alkyls (not otherwise classified)	---	40	200	---	---
2-Aminoethanol	141-43-5	120	600	0.04	0.2
2-Aminopyridine	504-29-0	40	200	0.01	0.05
Ammonia	7664-41-7	360	1,800	0.5	2.5
Ammonium chloride fume	12125-02-9	200	1,000	---	---
Ammonium sulfamate	7773-06-0	200	1,000	---	---
n-Amyl acetate	628-63-7	10,500	52,500	2	10
sec-Amyl acetate	626-38-0	13,000	65,000	2.5	10

Volumetric units are in parts per million by volume, unless shown as parts per billion by volume (ppbv) or parts per trillion by volume (pptv).

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-3, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Aniline……..	62-53-3	200	1,000	0.04	0.2
p-Anisidine……...	29191-52-4	10	50	2.ppbv	10.ppbv
Antimony & compounds (as Sb)……...	---	10	50	---	---
ANTU (-Naphthyl-thiourea)……..	86-88-4	6	30	---	---
Asphalt (petroleum) fumes…….	8052-42-4	100	500	---	---
Atrazine……..	1912-24-9	100	500	---	---
Azinphos-methyl……	86-50-0	4	20	---	---
Barium (soluble compound) as Ba……..	7440-39-3	10	50	---	---
Baygon (propoxur)……..	114-26-1	10	50	---	---
Benomyl……..	17804-35-2	200	1,000	---	---
Benzal chloride…….	98-87-3	---	---	---	---
Benzenethiol…….	108-98-5	40	200	0.01	0.05
Benzo (r,s,t) pentaphene……...	189-55-9	---	---	---	---
p-Benzoquinone……...	106-51-4	8	40	2.ppbv	10.ppbv
Benzoyl chloride……...	98-88-4	---	---	---	---
Benzoyl peroxide……...	94-36-0	100	500	---	---
Benzyl chloride……...	100-44-7	100	500	0.02	0.1
Biphenyl……..	92-52-4	30	150	2.6ppbv	13.ppbv
Bismuth telluride……	1304-82-1	200	1,000	---	---
Bismuth telluride, Se-doped……	---	100	500	---	---
Borates, tetra, sodium salts……..					
-anhydrous……	1303-96-4	20	100	---	---
-decahydrate……	1303-96-4	100	500	---	---
-pentahydrate……	1303-96-4	20	100	---	---
Boron oxide……..	1303-86-2	200	1,000	---	---
Boron tribromide……	10294-33-4	200	1,000	0.02	0.1
Boron trifluoride……	7637-07-2	---	---	---	---
Bromacil……..	314-40-9	200	1,000	0.02	0.1
Bromine……	7726-95-6	14	70	2.ppbv	10.ppbv
Bromine pentafluoride……	7789-30-2	14	70	2.ppbv	10.ppbv

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-3, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Bromochloromethane/chlorobromomethane……..	74-97-5	21,000	105,000	4	20
Bromoform……..	75-25-2	100	500	0.01	0.05
Butane……..	106-97-8	38,000	190,000	16	80
1-Butanethiol……...	109-79-5	30	150	0.01	0.05
2-Butanethiol……...	513-53-1	30	150	0.01	0.05
2-Butanone……...	78-93-3	11,800	59,000	4	20
2-Butoxyethanol……...	111-76-2	2,400	12,000	0.5	2.5
n-Butyl acetate……..	123-86-4	14,200	71,000	3	15
sec-Butyl acetate……...	105-46-4	19,000	95,000	4	20
tert-Butyl acetate……	540-88-5	19,000	95,000	4	20
Butyl acrylate……	141-32-2	1,100	5,500	0.2	1
n-Butyl alcohol……..	71-36-3	6,000	30,000	2	10
sec-Butyl alcohol……	78-92-2	6,100	30,500	2	10
tert-Butyl alcohol……	75-65-1	6,000	30,000	2	10
Butylamine…..……..	109-73-9	---	---	---	---
tert-Butyl chromate (as CrO3)……	1189-85-1	---	---	---	---
n-Butyl lactate…….	138-22-7	500	2,500	0.1	0.5
Butyl mercaptan……	109-79-5	30	150	0.01	0.05
o-sec-Butylphenol…….	89-72-5	600	3,000	0.1	0.5
p-tert-Butyltoluene…….	98-51-1	1,200	6,000	0.2	1
n-Butyronitrile……	109-74-0	440	2,200	0.16	0.8
Cadmium oxide production……	1306-19-0	1	5	---	---
Calcium arsenate (as As)…….	7778-44-1	---	---	---	---
Calcium cyanamide……	156-62-7	10	50	---	---
Calcium hydroxide……..	1305-62-0	100	500	---	---
Calcium oxide…….	1305-78-8	40	200	---	---
Camphor, synthetic……..	76-22-2	240	1,200	0.04	0.2
Caprolactam dust……..	105-60-2	20	100	---	---
Caprolactam vapor……	105-60-2	400	2,000	0.1	0.5
Captafol (difolatan)……	2425-06-1	2	10	---	---

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-3, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Captan	113-06-2	100	500	---	---
Carbaryl (Sevin)	63-25-2	100	500	---	---
Carbofuran (Furadan)	1563-66-2	2	10	---	---
Carbon black	1333-86-4	70	350	---	---
Carbon disulfide	75-15-0	60	300	0.02	0.1
Carbon tetrabromide	558-13-4	28	140	2.ppbv	10.ppbv
Carbonyl chloride (Phosgene)	75-44-5	8	40	2.ppbv	10.ppbv
Carbonyl fluoride	353-50-4	100	500	0.04	0.2
Catechol	120-80-9	400	2,000	0.1	0.5
Cesium hydroxide	21351-79-1	40	200	---	---
2-Chloraniline	106-47-8	0.06	0.3	0.01 ppbv	0.05 ppbv
Chlorinated diphenyl oxide	55720-99-5	10	50	---	---
Chlorine	7782-50-5	60	300	0.02	0.1
Chlorine dioxide	10049-04-4	6	30	2.ppbv	10.ppbv
Chlorine trifluoride	7790-91-2	---	---	---	---
Chlormadione acetate	302-22-7	---	---	---	---
Chloroacetaldehyde	107-20-0	---	---	---	---
alpha-Chloroacetophenone (Phenacyl chloride)	532-27-4	6	30	1.ppbv	5.ppbv
Chloroacetyl chloride	79-04-0	4	20	1.ppbv	5.ppbv
Chlorobenzene	108-90-7	7,000	35,000	1.5	7.5
o-Chlorobenzylidene malonitrile	2698-41-1	8	40	1.ppbv	5.ppbv
Chlorobromomethane/bromochloromethane	74-97-5	21,000	105,000	4	20
2-Chloro-1,3-butadiene	126-99-8	900	4,500	0.2	1
Chlorodifluoromethane	75-45-6	70,000	350,000	20	100
Chlorodiphenyl (42% Chlorine)	53469-21-9	20	100	---	---
Chlorodiphenyl (54% Chlorine)	11097-69-1	10	50	---	---
2-Chloroethanol	107-07-3	320	1,600	0.1	0.5
Chloropentafluorethane	76-15-3	126,400	632,000	20	100
1-Chloro-1-nitro-propane	600-25-9	200	1,000	0.04	0.2

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-3, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Chloropicrin ……	76-06-2	14	70	2.ppbv	10.ppbv
beta-Chloroprene…….	126-99-8	900	4,500	0.2	1
o-Chlorostyrene……	1331-28-8	5,700	28,500	1	5
o-Chlorotoluene……	95-49-8	5,000	25,000	1	5
Chloropyrifos (Dursban)……..	2921-88-2	4	20	---	---
Chromium (II) compounds as Cr……..	---	10	50	---	---
Chromium (III) compounds as Cr…….	---	10	50	---	---
Chromium (IV) compounds, non-carcinogenic as Cr……	---	0.5	2.5	---	---
Chromyl chloride……..	14977-61-8	3	15	0.5ppbv	2.5 ppbv
Clofibrate……..	637-07-1	---	---	---	---
Clomiprene……	911-45-5	---	---	---	---
Clopidol……	2971-90-6	200	1,000	---	---
Coal dust……	---	40	200	---	---
Cobalt metal, dust & fume (as Co)……...	7440-48-4	2	10	---	---
Cobalt carbonyl, as Co……...	00000-00-0	2	10	---	---
Cobalt hydrocarbonyl, (as Co)……	16842-03-8	2	10	---	---
Copper – dusts & mists (as Cu)……	7440-50-8	20	100	---	---
Copper fume ……	7440-50-8	2	10	---	---
Cotton dust, raw……	---	4	20	---	---
Crag herbicide……..	556-22-9	300	1,500	---	---
Cresol……	1319-77-3	200	1,000	0.048	0.24
Crotonaldehyde…….	123-73-9	120	600	0.04	0.2
Crufomate…….	299-86-5	100	500	---	---
Cumene…….	98-82-8	4,900	24,500	1	5
Cyanamide…….	420-04-2	40	200	---	---
Cyanides, as CN……...	51-50-8	100	500	---	---
…….	143-33-9	100	500	---	---
Cyanogen……	460-19-5	400	2,000	0.2	1
Cyanogen chloride……..	506-77-4	---	---	---	---

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-3, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Cyclamates	100-88-9	---	---	---	---
Cyclohexane	110-82-7	21,000	105,000	6	30
Cyclohexanethiol	1569-69-3	---	---	---	---
Cyclohexanol	108-93-0	4,000	20,000	1	5
Cyclohexanone	108-94-1	2,000	10,000	0.5	2.5
Cyclohexene	110-83-8	20,300	101,500	6	30
Cyclohexylamine	108-91-8	800	4,000	0.2	1
Cyclonite	121-82-4	30	150	---	---
Cyclopentadiene	542-92-7	4,000	20,000	1.5	7.5
Cyclopentane	287-92-3	17,000	85,000	6	30
Cyhexatin	13121-70-5	---	---	---	---
2,4-D (2,4-Dichlorophenoxylacetic acid)	94-75-7	200	1,000	---	---
Dalapon	75-99-0	120	600	0.02	0.1
Dapsone	80-08-0	---	---	---	---
Decaborane	17702-41-9	6	30	1.ppbv	5.ppbv
Decanethiol	143-10-2	---	---	---	---
Demeton	8065-48-3	2	10	0.2ppbv	1.ppbv
Diacetone alcohol	123-42-2	4,800	24,000	1	5
1,2-Diaminoethane	107-15-3	500	2,500	0.2	1
Diazinon	333-41-5	2	10	---	---
Diazomethane	334-88-3	8	40	4.ppbv	20.ppbv
Diborane	19287-45-7	2	10	2.ppbv	10.ppbv
Dibrom	300-76-5	60	300	---	---
2-n-Dibutylaminoethanol	102-81-8	280	1,400	0.04	0.2
Dibutyl phosphate	107-66-4	100	500	0.02	0.1
Dibutyl phthalate	84-74-2	100	500	---	---
Dichloroacetylene	7572-29-4	---	---	---	---
o-Dichlorobenzene	95-50-1	---	---	---	---
p-Dichlorobenzene	106-46-7	9,000	45,000	1.5	7.5

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-3, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Dichlorodifluoromethane	75-71-8	99,000	495,000	20	100
1,3-Dichloro-5,5-dimethyl hydantoin	118-52-5	4	20	---	---
1,1-Dichloroethane	75-34-3	8,000	40,000	2	10
1,2-Dichloroethylene	540-59-0	15,800	79,000	4	20
Dichloroethyl ether	111-44-4	600	3,000	0.1	0.5
Dichloromethane	75-09-2	7,000	35,000	2	10
Dichloromonofluoromethane	75-43-4	800	4,000	0.2	1
1,1-Dichloro-1-nitroethane	594-72-9	200	1,000	0.04	0.2
Dichloropropene	542-75-6	100	500	0.02	0.1
2,2-Dichloropropionic acid	75-99-0	120	600	0.02	0.1
Dichlorotetrafluoroethane	76-14-2	140,000	700,000	20	100
Dichlorvos (DDVP)	62-73-7	20	100	2.ppbv	10.ppbv
Dicrotophos (Bidrin)	141-66-2	5	25	---	---
Dicyclohexyl methane 4,4'-diisocyanate	---	1.1	5.5	---	---
Dicyclopentadiene	77-73-6	600	3,000	0.1	0.5
Dicyclopentadienyl iron	102-54-5	200	1,000	---	---
Dieldrin	60-57-1	5	25	---	---
Diethanolamine	111-42-2	300	1,500	0.06	0.3
Diehtylamine	109-89-7	600	3,000	0.2	1
Diethylaminoethanol	100-37-8	1,000	5,000	0.2	1
Diethyl ether	60-29-7	24,000	120,000	8	40
Diethyl ketone	96-22-0	14,100	70,500	4	20
Diethyl phthalate	84-66-2	100	500	---	---
Diethylene triamine	111-40-0	80	400	0.02	0.1
Difluorodibromomethane	75-61-6	17,200	86,000	2	10
Diglycidal ether	2238-07-5	10	50	2.ppbv	10.ppbv
Diisobutyl ketone	108-83-8	2,800	14,000	0.46	2.3
Diisocyanates, not listed	---	---	---	0.l ppbv	0.5 ppbv
Diisopropylamine	108-18-9	400	2,000	0.1	0.5

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-3, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Dimethisterone	79-64-1	---	---	---	---
Dimethoxymethane	109-87-5	62,000	310,000	20	100
Dimethyl acetamide	127-19-5	700	3,500	0.2	1
Dimethylamine	124-40-3	360	1,800	0.2	1
Dimethylaniline	121-69-7	500	2,500	0.1	0.5
Dimethylformamide	68-12-2	600	3,000	0.2	1
Dimethylphthalate	131-11-3	100	500	---	---
Dinitolmide	148-01-6	100	500	---	---
Dinitrobenzene-o isomer	528-29-0	20	100	3.ppbv	15.ppbv
Dinitrobenzene-m isomer	99-65-0	20	100	3.ppbv	15.ppbv
Dinitrobenzene-p isomer	100-25-4	20	100	3.ppbv	15.ppbv
Dinitro-o-Cresol	534-52-1	4	20	---	---
3,5-Dinitro-o-toluamide (Dinitolmide)	148-01-6	100	500	---	---
Dioxathion (Delnav)	78-34-2	4	20	---	---
Diphenyl	92-52-4	20	100	2.6 ppbv	13.ppbv
Diphenylamine	122-39-4	200	1,000	---	---
Diphenylmethane diisocyanate	101-68-8	1	5	---	---
Diphenylphthalate	---	---	---	---	---
Diproylene glycol methyl ether	34590-94-8	12,000	60,000	2	10
Dipropyl ketone	123-19-3	4,700	23,500	1	5
Diquat	85-00-7	10	50	---	---
Di-sec octyl phthalate	117-81-7	100	500	---	---
Disulfiram	97-77-8	40	200	---	---
Disulfoton	298-04-4	2	10	---	---
Disyston	298-04-4	2	10	---	---
2,6-Ditert butyl-p-cresol	128-37-0	200	1,000	---	---
Diuron	330-54-1	200	1,000	---	---
Divinyl benzene	108-57-6	1,000	5,000	---	---
Dodecanethiol	---	---	---	---	---
Dyfonate	944-22-9	2	10	---	---
Endosulfan	115-29-7	2	10	---	---

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-3, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Endrin	72-20-8	2	10	---	---
EPN	2104-64-5	10	50	---	---
Ethane	74-84-0	---	---	---	---
Ethanol	64-17-5	38,000	190,000	20	100
Ethanolamine	141-43-5	120	600	0.04	0.2
Ethion	563-12-2	8	40	---	---
2-Ethoxyethanol	110-80-5	380	1,900	0.1	0.5
2-Ethoxyethyl acetate	111-15-9	540	2,700	0.1	0.5
Ethyl acetate	141-78-6	28,000	140,000	8	40
Ethyl acrylate	140-88-5	400	2,000	0.1	0.5
Ethylamine	75-04-7	360	1,800	0.2	1
Ethyl sec-amyl ketone	541-85-5	2,600	13,000	0.6	3
Ethyl benzene	100-41-4	8,700	43,500	2	20
Ethyl bromide	74-96-4	17,800	89,000	4	20
Ethylbutyl ketone	106-35-4	4,600	23,000	1	5
Ethyl chloride	75-00-3	52,000	260,000	20	100
Ethylene	74-85-1	---	---	---	---
Ethylene chlorohyrdrin	107-07-3	320	1,600	0.1	0.5
Ethylenediamine	107-15-3	500	2,500	0.2	1
Ethylene glycol dinitrate	628-96-6	6	30	1.ppbv	5.ppbv
Ethylene glycol monomethyl ether acetate	110-49-6	480	2,400	0.1	0.5
Ethylene glycol, vapor	107-21-1	---	---	---	---
Ethylenimine	151-56-4	20	100	0.01	0.05
Ethyl ether	60-29-7	24,000	120,000	8	40
Ethyl formate	109-94-4	6,000	30,000	2	10
Ethylidene norbornene	16219-75-3	---	---	---	---
Ethyl mercaptan	75-08-1	20	100	0.01	0.05

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-3, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
n-Ethylmorpholine	100-74-3	460	2,300	0.1	0.5
Ethyl silicate	78-10-4	1,700	8,500	0.2	1
Ethylnodiol acetate	297-76-7	---	---	---	---
Fenamiphos	22224-92-6	2	10	---	---
Fensulfothion (Dasanit)	115-90-2	2	10	---	---
Fenthion	55-38-9	4	20	---	---
Ferbam	14484-64-1	200	1,000	---	---
Ferrovanadium dust	12604-58-9	20	100	---	---
Fluorides (as F)	---	50	250	---	---
Fluorine	7782-41-1	4	20	2.ppbv	10.ppbv
Fluorotrichchloromethane	75-69-4	112,000	560,000	20	100
5-Fluorouracil	51-21-8	---	---	---	---
Fonofos	944-22-9	2	10	---	---
Formamide	75-12-7	600	3,000	0.4	2
Formic acid	64-18-6	180	900	0.1	0.5
Furfural	98-01-1	160	800	0.04	0.2
Furfuryl alcohol	98-00-0	800	4,000	0.2	1
Gasoline	8006-61-9	18,000	90,000	6	30
Germanium tetrahydride	7782-65-2	12	60	4.ppbv	20.ppbv
Glass (dust)	---	100.*	500.*	---	---
Glass (fibrous)**	---	---	---	---	---
Glutaraldehyde, activated or unactivated	111-30-8	14	70	---	---
Glycerin mist	56-81-5	---	---	---	---
Glycidol	556-52-5	1,500	7,500	0.5	2.5

* Respirable

** The "HLV" for fibrous glass is 60,000 fibers of a length of 5 microns or greater per cubic meter (8-hour average) or 300,000 fibers of length of 5 microns or greater per cubic meter (30-minute average)

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-3, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Glyconitrile	107-16-4	---	---	---	---
Guthion (Azinphos-Methyl)	86-50-0	4	20	---	---
Hafnium	7440-58-6	10	50	---	---
Hematite	1317-60-8	---	---	---	---
Heptane (n-Heptane)	142-82-5	7,000	35,000	1.75	8.75
Heptanethiol	1639-09-4	---	---	---	---
Hexachlorocyclohexane	319-85-7	---	---	---	---
Hexachlorocyclopentadiene	77-47-4	2	10	0.2	1
Hexachloronaphthalene	1335-87-1	4	20	---	---
Hexadecanethiol	---	---	---	---	---
Hexafluoroacetone	684-16-2	14	70	2.ppbv	10.ppbv
Hexamethylene diisocyanate	822-06-0	0.7	3.5	---	---
Hexan (n-hexane)	110-54-3	3,600	18,000	1	5
Hexane, other isomers	110-54-3	36,000	180,000	10	50
Hexanethiol	111-31-9	---	---	---	---
2-Hexanone	591-78-6	400	2,000	0.1	0.5
Hexone	108-10-1	4,100	20,500	1	5
sec-Hexyl acetate	108-84-9	6,000	30,000	1	5
Hexylene glycol	107-41-5	___	___	---	---
Hydralazine	86-54-4	---	---	---	---
Hydrazinobenzene	100-63-0	400	2,000	0.1	0.5
Hydrochloride o-anisidine	---	---	---	---	---
Hydrogenated terphenyls	92-94-4	100	500	0.01	0.05
Hydrogen bromide	10035-10-6	200	1,000	0.06	0.3
Hydrogen chloride	7647-01-0	---	---	---	---
Hydrogen cyanide	74-90-8	220	1,100	0.2	1
Hydrogen fluoride	7664-39-3	50	250	0.06	0.3
Hydrogen peroxide	7722-84-1	28	140	0.02	0.1
Hydrogen selenide	7783-07-5	4	20	1.ppbv	5.ppbv
Hydrogen sulfide	7783-06-4	280	1,400	0.2	1

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-3, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VA LUE" ("HLV") (ug/m3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Hydroquinone	123-31-9	40	200	---	---
17x-Hydroxyprogesterone caproate	---	---	---	---	---
2-Hydroxypropyl acrylate	999-61-1	60	300	0.01	0.05
Indene	95-13-6	900	4,500	0.2	1
Indium & Compounds (as In)	7440-74-6	2	10	---	---
Iodine	7553-56-2	---	---	---	---
Iodoform	75-47-8	200	1,000	0.012	0.06
Iron oxide fume	1309-37-1	100	500	---	---
Iron pentacarbonyl	13463-40-6	16	80	2.ppbv	10.ppbv
Iron salts, soluble (as Fe)	---	20	100	---	---
Isoamyl acetate	123-92-2	10,500	52,500	2	10
Isoamyl alcohol	123-51-3	7,200	36,000	2	10
Isobutyl acetate	110-19-0	14,000	70,000	3	15
Isobutyl alcohol	78-83-1	3,000	15,000	1	5
Isobutyronitrile	78-82-0	440	2,200	0.16	0.8
Isonicotinic acid hydrazide	55-22-1	---	---	---	---
Isooctyl alcohol	26952-21-6	5,400	27,000	1	5
Isophorone	78-59-1	460	2,300	0.1	0.5
Isophorone diisocyanate	4098-71-9	0.9	4.5	0.1ppbv	0.5 pbv
Isopropoxyethanol	109-59-1	2,100	10,500	0.5	2.5
Isopropyl acetate	108-21-4	19,000	95,000	5	25
Isopropyl alcohol	67-63-0	19,600	98,000	8	40
Isopropylamine	75-31-0	240	1,200	0.1	0.5
n-Isopropyl aniline	643-28-7	200	1,000	0.04	0.2
Isopropyl ether	108-20-3	21,000	105,000	5	25
Isopropyl oils	---	---	---	---	---
Kerosene	8008-20-6	2,000	10,000	---	---
Ketene	463-51-4	18	90	0.01	0.05
Lead, inorg., fumes & dusts (as Pb)	7439-92-1	3	15	---	---
Lead arsenate (as Pb)	10102-48-4	3	15	---	---
Liquified petroleum gas	---	36,000	180,000	20	100

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-3, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Lithium hydride	7580-67-8	0.5	2.5	---	---
Lynoestrenol	52-76-6	---	---	---	---
Magenta	632-99-5	---	---	---	---
Magnesite	546-93-0	---	---	---	---
Magnesium oxide fume	1309-48-8	200	1,000	---	---
Malathion	121-75-5	200	1,000	---	---
Maleic anhydride	108-31-6	20	100	5.ppbv	25.ppbv
Malonitrile	109-77-3	160	800	0.06	0.3
Manganese dust & compounds (as Mn)	7489-96-5	---	---	---	---
Manganese cyclopentadienyl	---	---	---	---	---
tricarbonyl (as Mn)	12079-65-1	2	10	---	---
Manganese fume (as Mn)	7439-96-5	20	100	---	---
Manganese tetroxide	1317-35-7	20	100	---	---
Medroxyprogesterone acetate	71-58-9	---	---	---	---
Magestrol acetate	595-33-5	---	---	---	---
6-Mercaptopurine	50-44-2	---	---	---	---
Mercury (alkyl compounds) (as Hg)	---	0.2	1	---	---
Mercury (all forms except alkyl)					
(as Hg)	---	---	---	---	---
vapor	---	1	5	---	---
aryl and inorganic compounds	---	2	10	---	---
Mesityl oxide	141-79-7	800	4,000	0.2	1
Methacrylic acid	79-41-4	1,400	7,000	0.4	2
Methanethiol	74-93-1	20	100	0.01	0.05
Methanol	67-56-1	5,200	26,000	4	20
Methomyl	16752-77-5	50	250	---	---
Methotrexate	59-05-2	---	---	---	---
Methoxychlor	72-43-5	200	1,000	---	---
2-Methoxyethanol	109-86-4	320	1,600	0.1	0.5
2-Methoxyethyl acetate	110-49-6	480	2,400	0.1	0.5
4-Methoxyphenol	150-76-5	100	500	---	---

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-3, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Methyl acetate……..	79-20-9	12,200	61,000	4	20
Methyl acetylene……..	74-99-7	33,000	165,000	20	100
Methyl acetylene-propadiene mixture ……..	---	36,000	180,000	20	100
Methyl acrylate…….	96-33-3	700	3,500	0.2	1
Methylacrylonitrile ……	126-98-7	60	300	0.02	0.1
Methylal……	109-87-5	62,000	310,000	20	100
Methylamine…….	74-89-5	240	1,200	0.2	1
Methyl n-amyl ketone……..	110-43-0	4,700	23,500	1	5
n-Methyl aniline……...	100-61-8	40	200	0.01	0.05
Methyl bromide…….....	74-83-9	1,200	6,000	0.3	1.5
Methyl butyl ketone……..	591-78-6	80	400	28.ppbv	0.14
Methyl cellosolve……..	109-86-4	320	1,600	0.1	0.5
Methyl cellosolve acetate……..	110-49-6	480	1,200	0.1	0.5
Methyl chloride……..	74-87-3	2,100	10,500	1	5
Methyl chloroform……	71-55-6	38,000	190,000	7	35
Methyl 2-cyanoacrylate……..	137-05-3	160	800	0.04	0.2
Methylcyclohexane……	108-87-2	32,000	160,000	8	40
Methylcyclohexanol……	25639-42-3	4,700	23,500	1	5
o-Methylcyclohexanone…….	583-60-8	4,600	23,000	1	5
Methylcyclopentadienyl manganese tricarbonyl (as Mn)……..	12108-13-3	4	20	2.ppbv	10.ppbv
Methyl demeton…….	8022-00-2	10	50	---	---
Methylene bis (4-cyclo-hexyl-isocyanate)……..	5124-30-1	---	---	---	---
Methylene chloride……..	75-09-2	7,000	35,000	2	10
Methylene diphenyl isocyanate (MDI)……	101-68-8	1	5	---	---
Methyl ethyl ketone (MEK)……	78-93-3	11,800	59,000	4	20
Methyl ethyl ketone peroxide……..	1338-23-4	---	---	---	---
Methyl formate…….	107-31-3	5,000	25,000	2	10
Methyl isoamyl ketone……	110-12-3	4,600	23,000	0.96	4.8
Methyl isobutyl carbinol…….	108-11-2	2,000	10,000	0.5	2.5

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-3, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Methyl isobutyl ketone……	108-10-1	4,000	20,000	1	5
Methyl isocyanate……	624-83-9	1	5	0.4 ppbv	2.ppbv
Methyl isopropyl ketone……..	563-80-4	14,100	70,500	4	20
Methyl mercaptan…….	74-93-1	20	100	0.01	0.05
Methyl methacrylate……	80-62-6	8,200	41,000	2	10
Methyl parathion……..	298-00-0	4	20	---	---
Methyl n-propyl ketone……	107-87-9	10,600	53,000	2.8	14
Methyl silicate……..	681-84-5	120	600	0.02	0.1
Methyl styrene……..	98-83-9	4,800	24,000	1	5
Metribuzin ……....	21087-64-9	100	500	---	---
Mevinphos……...	7786-34-7	2	10	2.ppbv	10.ppbv
Mica*……...	---	___	___	___	___
Mineral wool fiber……...	---	200	1,000	---	---
Molybdenum (as Mo) soluble compounds……..	---	100	500	---	---
Molybdenum (insoluble compounds)…….	---	200	1,000	---	---
Monocrotophos……...	6923-22-4	5	20	---	---
Monomethyl aniline…….....	100-61-8	40	200	0.01	0.05
Naled……...	300-76-5	60	300	---	---
Naphtha**……...	---	8,000	40,000	2	10
Naphthalene…….....	91-20-3	1,000	5,000	0.2	1
Napthalene diisocyanate…….....	39394-45-1	0.8	4	---	---
1-Napthylamine…….....	134-32-7	---	---	---	---
Nickel (II) oxide…….....	1313-99-1	0.3	1.5	---	---
Nickel (III) oxide…….....	1314-06-3	0.3	1.5	---	---

* The "HLV" for mica is 0.4 million particles per cubic foot (mppcf), eight-hour average and 2 mppcf, 30-minute average.
** See also VM&P Naphtha

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-3, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Nickel, other soluble compounds (as Ni)***	---	0.3	1.5	---	---
Nicotine	54-11-5	10	50	---	---
Nitrapyrin	1929-82-4	200	1,000	---	---
Nitric acid	7697-37-2	100	500	0.04	0.2
Nitric oxide	10102-43-9	600	3,000	0.5	2.5
p-Nitroaniline	100-01-6	60	300	0.01	0.05
Nitrobenzene	98-95-3	100	500	0.02	0.1
p-Nitrochlorobenzene	100-00-5	20	100	---	---
Nitroethane	79-24-3	6,200	31,000	2	10
Nitrogen trifluoride	7783-54-2	580	2,900	0.2	1
Nitroglycerin	55-63-0	10	50	1.ppbv	5.ppbv
Nitromethane	75-52-5	5,000	25,000	2	10
1-Nitropropane	108-03-2	1,800	9,000	0.5	2.5
Nitrotoluene	99-08-1	220	1,100	0.04	0.2
Nitrous oxide	10024-97-2	1,340	6,700	0.73	3.65
Nonane	111-84-2	21,000	105,000	4	20
Nonanethiol	1455-21-6	---	---	---	---
Norethynodrel	68-23-4	---	---	---	---
Norgestrel	6533-00-2	---	---	---	---
Octachloronaphthalene	2234-13-1	2	10	---	---
Octadecanethiol	---	---	---	---	---
Octane	111-65-9	7,000	35,000	1.4	7
Octanethiol	111-86-6	---	---	---	---
Oil mist, mineral	8012-95-1	100	500	---	---
Osmium tetroxide (as Os)	20816-12-0	0.04	0.2	4.pptv	20.pptv
Oxalic acid	144-62-7	20	100	---	---
Oxygen difluoride	7783-41-7	2	10	1.ppbv	5.ppbv
Paraffin wax fume	8002-74-2	40	200	---	---
Paraquat, respirable sizes	1910-42-5	2	10	---	---
Parathion	56-38-2	2	10	---	---

*** Non-carcinogens

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-3, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Pentaborane…….	19624-22-7	0.2	1	0.1 ppbv	0.5 ppbv
Pentachloronaphthalene……..	1321-64-8	10	50	---	---
Pentachlorophenol……..	87-86-5	10	50	---	---
Pentaerythritol…….	115-77-5	300	1,500	---	---
Pentane……	109-66-0	7,000	35,000	2.3	11.7
Pentanethiol……	110-66-7	---	---	---	---
2-Pentanone……..	107-87-9	10,600	53,000	2.8	14
Perchloromethyl mercaptan……..	594-42-3	16	80	2.ppbv	10.ppbv
Perchloryl fluoride…….	7616-94-6	270	1,350	0.06	0.3
Perlite…….	---	0.6 mppcf*	3 mppcf*	---	---
Phenelzine……..	51-71-8	---	---	---	---
Phenobarbital……	50-06-6	---	---	---	---
Phenol……	108-95-2	380	1,900	0.1	0.5
Phenothiazine……	92-84-2	100	500	---	---
Phenylbutazone……..	50-33-9	---	---	---	---
p-Phenylene diamine…….....	106-50-3	2	10	---	---
Phenyl ether (vapor)……...	101-84-8	140	700	0.02	0.1
Phenyl ether-Diphenyl mixture (vapor)……..	---	140	700	0.02	0.1
Phenyl mercaptan…….....	108-98-5	40	200	0.01	0.05
Phenyl-l-naphthylamine……...	90-30-2	---	---	---	---
Phenylphosphine…….	638-21-1	---	---	---	---
Phorate (Thimet)…….	298-02-2	1	5	---	---
Phosdrin (Mevinphos)……	7786-34-7	2	10	2.ppbv	10.ppbv
Phosgene (carbonyl chloride)……..	75-44-5	8	40	2.ppbv	10.ppbv
Phosphine……	7803-51-2	8	40	6.ppbv	30.ppbv

* mppcf: millions of particles per cubic foot

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-3, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Phosphoric acid	7664-38-2	20	100	---	---
Phosphorus (yellow)	7723-14-0	2	10	---	---
Phosphorus oxychloride	10025-87-3	12	60	2.ppbv	10.ppbv
Phosphorus pentachloride	10026-13-8	20	100	2.ppbv	10.ppbv
Phosphorus pentasulfide	1314-80-3	20	100	---	---
Phosphorus trichloride	7719-12-2	30	150	4.ppbv	20.ppbv
Phthalic anhydride	85-44-9	120	600	0.02	0.1
m-Phthalodinitrile	626-17-5	100	500	---	---
Picloram	1918-02-1	200	1,000	---	---
Picric acid	88-89-1	2	10	---	---
Pindone	83-26-1	2	10	---	---
Piperazine dihydrochloride	142-64-3	100	500	---	---
Pival (2-Pivalyl-1,3-indandione)	83-26-1	2	10	---	---
Platinum (metal)	7440-06-4	20	100	---	---
Platinum (soluble salts) (as Pt)	---	0.04	0.2	---	---
Polytetrafluoroethylene decomposition products	---	---	---	---	---
Potassium hydroxide	1310-58-3	---	---	---	---
Prednisone	53-03-2	---	---	---	---
Propane	74-98-6	---	---	---	---
Propanethiol	75-33-2	36,000	180,000	---	---
Propargyl alcohol	107-19-7	40	200	0.02	0.1
Propionic acid	79-09-4	600	3,000	0.2	1
Propionitrile	107-12-0	280	1,400	0.12	0.6
Propoxur	114-26-1	10	50	---	---
n-Propyl acetate	109-60-4	16,800	84,000	4	20
Propyl alcohol	71-23-8	10,000	50,000	4	20
Propylene	115-07-1	---	---	---	---
Propylene dichloride	78-87-5	7,000	35,000	1.5	7.5
Propylene glycol dinitrate	6423-43-4	6	30	1.ppbv	5.ppbv

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-3, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Propylene glycol monomethyl ether	107-98-2	7,200	36,000	2	10
Propylene oxide	75-56-9	1,000	5,000	0.4	2
n-Propyl nitrate	627-13-4	2,100	10,500	0.5	2.5
Pyrethrum	8003-34-7	100	500	---	---
Pyridine	110-86-1	300	1,500	0.1	0.5
Quinone	106-51-4	8	40	2.ppbv	10.ppbv
RDX	121-82-4	30	150	---	---
Resorcinol	108-46-3	900	4,500	0.2	1
Rhodium, Metal fume & dusts (as Rh)	7440-16-6	2	10	---	---
- insoluble compounds	---	20	100	---	---
- soluble salts (as Rh)	---	0.02	0.1 ---	---	
Ronnel	299-84-3	200	1,000	---	---
Rosin core solder pyrolysis products (as formaldehyde)	---	2	10	---	---
Rotenone (commercial)	83-79-4	100	500	2.ppbv	10.ppbv
Rouge	1309-37-1	---	---	---	---
Selenium compounds (as Se)	---	4	20	---	---
Selenium hexafluoride	7783-79-1	4	20	1.ppbv	5.ppbv
Sesone	136-78-7	200	1,000	---	---
Silane	7803-62-5	140	700	0.1	0.5
Silica, amorphous	60676-86-0	---	---	---	---
Silicon carbide	409-21-2	---	---	---	---
Silver, metal	7440-22-4	0.2	1	---	---
Silver, soluble compounds	---	0.2	1	---	---
Soapstone*	---	___	___	___	___

* The "HLV" for soapstone is 0.4 million particles per cubic foot (mppcf), eight-hour averae and 2 mppcf, 30-minute average

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-3, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Sodium azide	26628-22-8	---	---	---	---
Sodium bisulfite	7631-90-5	100	500	---	---
Sodium fluoroacetate (1080)	62-74-8	1	5	---	---
Sodium hydroxide	1310-73-2	40	200	---	---
Sodium metabisulfite	7681-57-4	100	---	---	---
Sprionolactone	52-01-7	---	---	---	---
Stibine	7803-52-3	10	50	2.ppbv	10.ppbv
Stoddard solvent	8052-41-3	7,000.**	35,000.**	1.22**	6.1**
Strychnine	57-24-9	3	15	---	---
Styrene, monomer	100-42-5	4,300	21,500	1	5
Styrene oxide	96-09-3	---	---	---	---
Subtilisins (proteolytic enzymes as 100% pure crystalline enzyme)	1395-21-7	---	---	---	---
Succinonitrile	110-61-2	400	2,000	0.12	0.6
Sulfafurazole	127-69-5	---	---	---	---
Sulfamethoxazole	723-46-6	---	---	---	---
Sulfotep	3689-24-5	4	20	---	---
Sulfur hexafluoride	2551-62-4	120,000	600,000	20	100
Sulfuric acid	7664-93-9	20	100	---	---
Sulfur monochloride	10025-67-9	120	600	0.02	0.1
Sulfur pentafluoride	5714-22-7	5	25	0.5ppbv	2.5ppbv
Sulfur tetrafluoride	7783-60-0	8	40	2.ppbv	10.ppbv
Sulfuryl fluoride	2699-79-8	400	2,000	0.1	0.5
Sulprofos	35400-43-2	20	100	---	---
2,4,5-T	93-76-5	200	1,000	---	---
Tantalum	7440-25-7	100	500	---	---
TEDP (Sulfotep)	3689-24-5	4	20	---	---
Teflon decomposition products	---	---	---	---	---
Tellerium & compounds, as Te	13494-80-9	2	10	---	---
Tellerium hexafluoride, as Te	7783-80-4	4	20	0.4	2

**Petroleum solvents generally, except kerosene

Note: Dashed lines indicate that no "hazard limiting value" has been established for the "hazardous air pollutant" listed. The "HLV" and/or "AAQS" will be determined at a later date.

TABLE 29-3, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Temephos	3383-96-8	200	1,000	---	---
TEPP	107-49-3	1	5	0.08 ppbv	0.4 ppbv
Terphenyls	92-94-4	---	---	---	---
2,3,7,8-Tetrachlorodibenzofuran	51207-31-0	---	---	---	---
1,1,1,2-Tetrachloro-2,2-difluoroethane	76-11-9	83,400	417,000	10	50
1,1,2,2-Tetrachloro-1,2-difluoroethane	76-12-0	83,400	417,000	10	50
Tetrachloronaphthalene	1335-88-2	40	200	---	---
Tetraethyl lead (as Pb)	78-00-2	1.5	7.5	---	---
Tetrahydrofuran	109-99-9	11,800	59,000	4	20
Tetramethyl lead (as Pb)	75-74-1	1.5	7.5	---	---
Tetramethyl succinonitrile	3333-52-6	60	120	0.01	0.05
Tetranitromethane	509-14-8	160	800	0.02	0.1
Tetrasodium pyrophosphate	7722-88-5	100	500	---	---
Tetryl (2,4,6-trinitrophenyl-methylnitramine)	479-45-8	30	150	---	---
Thallium, soluble compounds (as Tl)	---	2	10	---	---
4,4'-Thiobis (6-tert butyl-m-cresol)	96-69-5	200	1,000	---	---
Thioglycolic acid	68-11-1	100	500	0.02	0.1
Thiram	137-26-8	100	500	---	---
Tin, metal	7440-31-5	40	200	---	---
Tin, inorganic compounds, except SnH4	---	40	200	---	---
Tin, organic compounds (as Sn)	---	2	10	---	---
Tin, oxide (as Sn)	---	40	200	---	---
Titanium dioxide (as Ti)	13463-67-7	300	1,500	---	---
Toluene	108-88-3	7,500	37,500	2	10
Toluene-2,4-diisocyanate (TDI)	584-84-9	0.72	4	0.1 ppbv	0.5 ppbv
Tributyl phosphate	126-73-8	50	250	4.ppbv	20.ppbv
Trichloroacetic acid	76-03-9	100	500	0.02	0.1
1,2,4-Trichlorobenzene	120-82-1	800	4,000	0.1	0.5
1,1,1-Trichloroethane	71-55-6	38,000	190,000	7	35

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TABLE 29-3, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Trichlorofluoromethane……..	75-69-4	---	---	---	---
Trichloronaphthalene……..	1321-65-9	100	500	---	---
2,4,5-Trichlorophenol…….	95-95-4	---	---	---	---
1,2,3-Trichloropropane……...	96-18-4	6,000	30,000	1	5
1,1,2-Trichloro-1,2,2-trifluoroethane……..	76-13-1	152,000	760,000	20	100
Tricyclohexyltin hydroxide (Cyhexatin)……	13121-70-5	100	500	---	---
Triethylamine……..	121-44-8	800	4,000	0.2	1
Trifluoromonobomomethane……	75-63-8	122,000	610,000	20	100
Trimellitic anhydride……	552-30-7	0.8	4	0.1 ppbv	0.5 ppbv
Trimethylamine……	75-50-3	480	2,400	0.2	1
Trimethyl benzene…….	25551-13-7	2,500	12,500	0.5	2.5
Trimethyl phosphite……..	121-45-9	200	1,000	0.04	0.2
2,4-6-Trinitrotoluene (TNT)……..	118-96-7	10	50	---	---
Triorthocresyl phosphate……	73-30-8	2	10	---	---
Triphenyl amine……	603-34-9	100	500	---	---
Triphenyl phosphate……	115-86-6	60	300	---	---
Tungsten & compounds, as W – soluble……	---	20	100	---	---
-insoluble……..	---	100	500	---	---
Turpentine……..	8006-64-2	11,200	56,000	2	10
Undecanethiol…….	---	---	---	---	---
Uranium (natural) compounds (as U)					
soluble……	---	1	5	---	---
insoluble……	---	4	20	---	---
Valeraldehyde……..	110-62-3	3,500	17,500	1	5
Vanadium, as Pentoxide, -Dust……...	1314-62-1	1	5	---	---
- (Fume)……..	1314-62-1	1	5	---	---

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TABLE 29-3, Continued

"HAZARDOUS AIR POLLUTANT"	"CAS NUMBER"	"HAZARD LIMITING VALUE" ("HLV") (ug/m3) 8-HOUR	30-MINUTE	VOLUMETRIC UNITS 8-HOUR	30-MINUTE
Vinblastine	865-21-4	---	---	---	---
Vincristine	57-22-7	---	---	---	---
Vinyl acetate	108-05-4	600	3,000	0.2	1
Vinylidene chloride	75-35-4	400	2,000	0.1	0.5
Vinyl toluene	25013-15-4	9,600	48,000	2	10
VM & P Naphtha	8030-30-6	27,000	135,000	6	30
Warfarin	81-81-2	2	10	---	---
Welding fumes (not otherwise classified)	---	100	500	---	---
o-Xylene	1330-20-7	8,680	43,400	2	10
m-Xylene	1330-20-7	8,680	43,400	2	10
p-Xylene	1330-20-7	8,680	43,400	2	10
m-Xylene, '-diamine	1477-55-0	---	---	---	---
Yttrium	7440-65-5	20	100	---	---
Zinc chloride fume	7646-85-7	20	100	---	---
Zinc oxide fume	1314-13-2	100	500	---	---
Zinc stearate	557-05-1	---	---	---	---
Zirconium compounds (as Zr)	---	100	500	---	---

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