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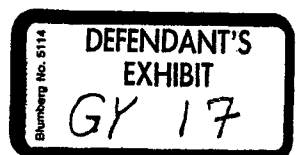
VI - very much
Disease

**LEGAL REQUIREMENTS FOR THE PREVENTION AND CONTROL
OF INDUSTRIAL PUBLIC HEALTH HAZARDS**

**Division of Industrial Hygiene
Ohio Department of Health
Columbus, Ohio
1946**

**REGULATIONS FOR THE PREVENTION AND CONTROL OF DISEASES RESULTING FROM EXPOSURE TO
TOXIC FUMES, VAPORS, MISTS, GASES AND DUSTS IN ORDER TO
PRESERVE AND PROTECT THE PUBLIC HEALTH**

Adopted by the Ohio Public Health Council February 16, 1946. Filed with the Secretary of State March 1, 1946. Effective January 1, 1947



Regulation 247. (Harmful Exposure.)

(2) The concentration of dusts, fumes, mists, vapors, or gases, in the air breathed by employees shall not exceed the following maximum allowable concentrations for an 8-hour daily exposure:

GASES AND VAPORS	CONCENTRATION Parts per million (by volume)
Acetone	500
Acrolein	0.5
Acrylonitrile (Vinyl Cyanide)	20
Ammonia	100
Amyl Acetate.	400
Butyl Acetate	400
Ethyl Acetate	400
Aniline	5
Arsine.	1
Benzene (Benzol).	100
Butanone (Methyl Ethyl Ketone).	300
Butyl Alcohol	100
Carbon Disulfide	20
Carbon Monoxide	100
Carbon Tetrachloride	100
Chlorine.	5
Chloroform	100
Dichlorobenzene	75
Dichlorethyl Ether	15
Dimethyl Aniline	5
Ether (Ethyl)	400
Ethylene Dichloride	100
Ethylene glycol monomethyl ether (Methyl "Cellosolve").	100
Formaldehyde.	10
Hydrogen Chloride	10
Hydrogen Cyanide.	20
Hydrogen Fluoride (Calculated as H F)	3
Hydrogen Sulfide.	20
Methyl Alcohol.	200

GASES AND VAPORS

CONCENTRATION
Parts per million
(by volume)

Methyl Bromide	20
Methyl Chloride	200
Naphtha:	
Coal Tar	200
Petroleum	1,000
Nitrobenzene	5
Nitrogen Oxides	25
Ozone	1
Phosgene	1
Phosphine	1
Styrene (Monomer)	400
Sulfur Dioxide	10
Tetrachlorethane	10
Tetrachlorethylene (Perchlorethylene)	200
Toluene (Toluol)	200
Trichlorethylene	200
Turpentine	200
Xylene (Xylol)	200

METALLIC DUSTS AND FUMES

CONCENTRATION
Milligrams
per cubic meter

Cadmium	0.1
Chromic Acid and Chromates	
(Calculated as chromic oxide, CrO_3)	0.1
Lead	0.15
Manganese	6.0
Mercury	0.1
Zinc Oxide	15.0

OTHER DUSTS AND FUMES

Chlorinated Diphenyls	1.0
Chlorinated Naphthalenes:	
Trichlornaphthalene	5.0
Pentachlornaphthalene	0.5

MINERAL DUSTS

CONCENTRATION
Million particles
per cubic foot

Asbestos	5
Silica, free or uncombined: Over 40%	5
20 to 40%	10
10 to 20%	20

RADIATION

X-ray (Roentgens per day)	0.1
Radium (Roentgens per day)	0.1
Radon gas (Curie per liter)	10^{-11}

"Explanatory Note:

- (1) At least three atmospheric samples, spaced at intervals to yield an average measurement of exposure over the entire cycle of operation under test shall be collected in the breathing zone of the worker or wherever such exposures are suspected or known to exist.

- (2) The sampling and analysis of contaminated air and the interpretation of the data in relation to the stated maximum allowable concentrations shall be done only by technically qualified and competent persons using methods approved by the Ohio Department of Health.
- (3) Temporary concentrations in excess of the maximum allowable concentrations listed shall not be permitted if exposure to such concentrations for a period of one hour or less may result in an adverse effect on health as determined by the Ohio Department of Health.
- (4) For the purpose of the above maximum allowable concentrations for silica, the free silica content shall be the percent of free silica in the fraction of the air-borne dust in the breathing zone of the worker that is smaller than 5 microns in maximum diameter.
- (5) For all other dust determinations millions of dust particles per cubic foot of air by the light field microscope counting technique shall include all microscopically visible particles up to 10 microns in size."