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AIDS HELPLINE: 0800-0123-22 Prevention is the cure

CONTENTS

No.

Page
No. Gazette
 No.

GOVERNMENT NOTICE

Minerals and Energy, Department of

Government Notice

R. 904 Mine Health and Safety Act (29/1996): Regulations..... 3 23583

GOVERNMENT NOTICE

DEPARTMENT OF MINERALS AND ENERGY

No. R. 904

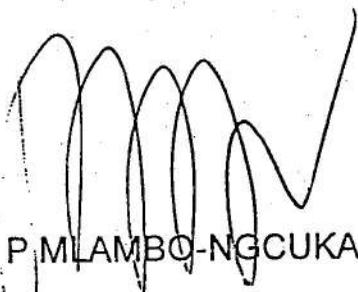
2 July 2002

**REGULATIONS UNDER THE MINE HEALTH AND SAFETY ACT,
1996****(ACT NO 29 OF 1996)**

In terms of section 98(1)(r) of the Mine Health and Safety Act, 1996 (Act No. 29 of 1996), I Phumzile Mlambo-Ngcuka, Minister of Minerals and Energy, hereby make the Regulations in the Schedule.

The Regulations in the Schedule will take effect on the date of publication hereof except-

- (a) Regulation 9.1(3) and 9.2(7), which take effect on 1 September 2002 .



MS P. MLAMBO-NGCUKA

MINISTER OF MINERALS AND ENERGY

SCHEDULE

CHAPTER 5

FIRES AND EXPLOSIONS

Report to Employer

5.1(1) The *employer* must ensure that a competent person reports to the *employer*, at appropriate intervals determined in accordance with the *mine's risk assessment*, on –

- (a) the effectiveness of the precautionary measures taken to prevent or suppress explosions of coal dust or flammable gas; and
- (b) the adequacy of measures in place to prevent, detect and combat the start and spread of *mine* fires.

Reference is made to the following Guidelines issued by the Chief Inspector of Mines in terms of section 9(2) of this Act

- (i) Guideline for the Compilation of a Mandatory Code of Practice for the Prevention of Coal Dust and Flammable Gas Explosions: Ref.: DME 16/3/2/1-A1
- (ii) Guideline for the Compilation of a Mandatory Code of Practice for the Prevention of Flammable Gas Explosions in Mines Other than Coal DME 16/3/2/1-A2

CHAPTER 9

MINE ENVIRONMENTAL ENGINEERING AND OCCUPATIONAL HYGIENE

9.1 Environmental Engineering

Use of Compressed Air

- 9.1(1) No person may use, or permit any person to use, compressed air:
- (a) in such a manner that it might endanger the *health* or *safety* of any person; or
 - (b) to clean the body of any person or clothes being worn by any person.

Early Warning Systems

- 9.1(2) Where the *risk* assessment at the *mine* indicates a significant *risk* of a fire and/or explosion and/or toxic release, that could lead to an irrespirable atmosphere or an atmosphere immediately dangerous to life or *health*, the *employer* must provide an early warning system or systems at all *working places*.

Ventilation Control Devices

- 9.1(3) The *employer* must ensure that polymer underground ventilation control devices or appliances, which have the potential for electrical static discharge-
- (a) comply with the SABS standard specifications 1287: Part I and Part II; and
 - (b) are of anti-static characteristics when used in *working places* where there is a *risk* of igniting gas, dust or vapour.

Working places where work has ceased

9.1(4) The *employer* must take *reasonably practicable* measures to ensure that no *employee* is exposed to any *health hazard* at, or emanating from, any *working place* where work has ceased, either temporarily or permanently.

9.2 Occupational Hygiene

Occupational exposure to health hazards

9.2(1) The *employer* must ensure that the occupational exposure to *health hazards* of *employees* is maintained below the limits set out in Schedule 22.9(2)(a) and (b).

System of Occupational Hygiene Measurements

9.2(2) The *employer* must establish and maintain a system of *occupational hygiene* measurements, as contemplated in section 12, of all *working places* where the following *hazard* limits prevail:

- (a) airborne pollutants
 - particulates $\geq \frac{1}{10}$ of the occupational exposure limit;
 - gases and vapours $\geq \frac{1}{2}$ of the occupational exposure limit;
- (b) thermal stress
 - heat $>25,0^{\circ}\text{C}$ wet bulb and/or $>32,0^{\circ}\text{C}$ dry bulb and/or $>32,0^{\circ}\text{C}$ mean radiant temperature;
 - cold $<10^{\circ}\text{C}$ equivalent chill temperature; and
- (c) noise
 - $\geq 82\text{dB}_{\text{L}_{\text{Aeq},8\text{h}}}$.

Reference is made to the following Guidelines issued by the Chief Inspector of Mines in terms of section 9(2) of this Act

- (i) Guideline for the Compilation of a Mandatory Code of Practice for an Occupational Health Programme on Personal Exposure to Airborne Pollutants: Ref. No. DME 16/3/2/4-A1
- (ii) Guideline for the Compilation of a Mandatory Code of Practice for an Occupational Health Programme on Personal Exposure to Thermal Stress Ref. No. DME 16/3/2/4-A2

Report to Employer

9.2(3) The competent person engaged by the *employer* in terms of section 12(1) must, as part of the compliance with section 12(2)(b), report to the *employer* on –

- (a) the *occupational hygiene risk assessment*, with specific reference to planning, design, implementation and management of *occupational hygiene* at the *mine*;
- (b) the *occupational hygiene hazards* that may cause illness or adverse *health* effects to persons, assess the results in terms of the implementation of control systems and the management thereof, and recommend remedial actions to the *employer*.

Provision of potable and palatable water

9.2(4) The *employer* must ensure that sufficient potable and palatable water, which comply with the requirements set out in Schedule 22.9(2)(c), is readily available to all *employees* and clearly identified as drinkable.

Provision and maintenance of ablution and change house facilities

9.2(5) The *employer* must provide and maintain suitable and adequate:

- (a) change houses to enable *employees* who perform work involving *hazardous substances* to change into working clothes at the start of their shift and to wash themselves and change their clothes at the end of their shift;
- (b) facilities to enable *employees* who perform work involving *hazardous substances* to wash their hands and faces before eating any meals at work; and
- (c) readily available latrine facilities, within a reasonable distance from each *working place*.

Working Clothes

9.2(6) No *employee* may remove clothes referred to in *regulation* 9.2(5)(a) from the *mine* unless such clothes have been decontaminated.

Report to Regional Principal Inspector

9.2(7) The *employer* must annually submit to the regional *principal inspector of mines*, on forms 21.9(2)(a); 21.9(2)(b); 21.9(2)(c) and 21.9(2)(d), *prescribed* in chapter 21, and within 30 days from the end of the relevant annual reporting period as indicated on each form, reports which contain quarterly information on the airborne pollutant, heat stress, cold stress and noise aspects of the system of *occupational hygiene* measurements, established and maintained in terms of *regulation* 9.2(2), covering the immediately preceding 12 months.

Respiratory Protective Equipment

9.2(8) The *employer* must ensure that all respiratory protective equipment used at a *mine*, other than body-worn self-contained self rescuers, comply with the South African bureau of Standards Code of Practice, Homologation of Respiratory equipment SABS 0338.

Illumination of Working Places

9.2(9) The *employer* must ensure that the illumination at all working places is sufficient to enable employees, who have conformed with the requirements of the vision tests conducted in terms of the Guideline for the Minimum Standards of Fitness to Perform work at a Mine, to perform their work safely.

Repeal

The following regulations made under the Minerals Act, 1991 (Act 50 of 1991) in force in terms of Schedule 4 of the Mine Health and Safety Act, 1996 (Act 29 of 1996) are hereby repealed.

CHAPTER 2	CHAPTER 4	CHAPTER 6	CHAPTER 7	CHAPTER 8	CHAPTER 9	CHAPTER 10				CHAPTER 15	CHAPTER 24
2.10.7	4.2	6.3.2.4	7.2.2	8.4.2(c)	9.29	10.1.1	10.6.1	10.10.1	10.19.2	15.5.3	24.14.6
2.10.8	4.3.1		7.3.1	8.5.1		10.1.2	10.6.2	10.10.2	10.19.3	15.2	24.20.4
2.10.9	4.3.2			8.5.2		10.2.1	10.6.3	10.10.3	10.20.1	15.2.1	
2.10.10	4.3.3			8.9.3.1		10.2.2	10.6.4	10.10.4	10.20.2	15.2.2	
2.10.7	4.3.4			8.9.4		10.2.3	10.6.5	10.10.5	10.20.3	15.3.1	
2.16.1	4.8			8.9.5		10.2.4	10.6.6	10.10.6	10.21.1		
2.16.2	4.9			8.9.8		10.2.5	10.6.7	10.11.2	10.21.2		
2.16.3				8.9.9		10.2.6	10.7	10.16.1	10.21.3		
				8.9.10		10.3.1	10.8	10.16.2	10.21.4		
				8.10.12		10.3.2	10.9.1.1	10.16.3	10.21.5		
				8.10.13		10.3.3	10.9.1.2	10.16.4	10.22		
				8.10.41		10.3.4	10.9.2	10.17.1	10.23		
				8.10.42		10.3.5	10.9.3	10.17.2	10.25.2		
				8.10.43		10.3.6	10.9.4	10.17.3	10.25.3		
						10.4	10.9.5	10.17.4	10.25.4		
						10.5.1	10.9.6	10.19.1	10.25.5		
						10.5.2	10.10		10.25.8		

CHAPTER 16

RESCUE, FIRST AID AND EMERGENCY PREPAREDNESS AND RESPONSE

Report to Employer Relating to Explosions, Fires and Flooding

- 16.1(1) The *employer* must ensure that a competent person reports to the *employer*, at appropriate intervals determined in accordance with the *mine's risk* assessment, on the adequacy of escape and rescue procedures at the *mine* relating to explosions, fires and flooding.

CHAPTER 21

Annual Airborne Pollutants Personal Exposure Report Form Report Form 21.9(2)(a)

In terms of regulation 9.2. (7)

General:

1. Quarterly Commodity Sampling Periods

Commodity	Annual Reporting Period
Gold; Diamond; Processed Minerals	Oct - Sept
Coal; Asbestos; Aggregate and Sand	Nov - Oct
Platinum; Base Metals,	Sept - Aug

2. The monitoring frequency and number of samples to be used are specified in the SAMOHP
3. Complete one form for each homogeneous exposure group
4. Codes to be used in this form are specified in the SAMOHP
5. Attach Operation Details – Report Form on an annual basis
6. The results of samples taken from randomly selected occupations within a HEG must be assigned to that specific occupation code

Total Number of Pages of Complete Report

Main Commodity Code:	
Sample Area	
Activity Area Code:	
HEG Classification Band:	

DME Mine Code

Quarter Ending:

HEG		Pollutant Code	Concentration Per Occupation mg/m ³ ppm f/ml (A)	Average Of HEG (B)	90 th percentile of HEG	Analysis % (C)	Dose allocated to medical record mg/m ³ ppm f/ml (D=BxC%)	OEL mg/m ³ ppm f/ml (E)	Pollutant Index (F=D/E)	AQI (G=SUM F)
Occupations in HEG Codes	No of persons per Occupation									

Annual Heat Stress Exposure Report Form Report Form 21.9(2)(b)

In terms of regulation 9.2. (7)

General:

1. Risk assessment will determine the warmest quarter (Generally – January – March)
2. Quarterly Commodity Sampling Periods

Commodity	Annual Reporting Period
Gold; Diamond; Processed Minerals	Oct - Sept
Coal; Asbestos; Aggregate and Sand	Nov - Oct
Platinum; Base Metals,	Sept - Aug

2. Complete one form for each homogeneous exposure group
3. Codes to be used in this form are specified in the SAMOHP
4. Attach Operation Details – Report Form on an annual basis

Total Number of Pages of Complete Report

5. The results of samples taken from randomly selected occupations within a HEG must be assigned to that specific occupation code

Main Commodity Code:	
Measurement Area:	
Activity Area Code:	
Thermal Classification:	

DME Mine Code	
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Quarter Ending	
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Thermal Environment		Parameter	Measurements (n)	Mean	Range
Total number of people in Thermal Environment	Occupations in Thermal Environment				
		Wet bulb (WB) °C			
		Dry bulb (DB) °C			
		Globe (GT) °C			

CHAPTER 22

SCHEDULES

22.9(2) OCCUPATIONAL HYGIENE

22.9(2)(a) OCCUPATIONAL EXPOSURE LIMITS FOR AIRBORNE POLLUTANTS

In this Schedule the following terms/abbreviations have the meanings as set out below.

TERMS

“Asbestos” means any of the following minerals: - Crocidolite, Amosite, Chrysotile, Fibrous actinolite, Fibrous anthophyllite, Fibrous tremolite, and any mixture containing any of these minerals.

“Occupational exposure limit” (OEL) means the time weighted average concentration for a 8 hour work day and a 40 hour work week to which nearly all workers may be repeatedly exposed without adverse health effects.

“Occupational exposure limit - Ceiling limit” (OEL - C) means an instantaneous value which must never be exceeded during any part of the working exposure.

“Occupational exposure limit – Short term exposure limit” (OEL-STEL) means a 15-minute TWA exposure which should not be exceeded at any time during a workday even if the 8-hour TWA is within the OEL-TWA. Exposures above the OEL-TWA up to the STEL should not be longer than 15 minutes and should not occur more than four times per day. There should be at least 60 minutes between successive exposures in this range. An averaging period other than 15 minutes may be recommended when this is warranted by observed biological effects.

For those substances for which no OEL-STEL have been specified, excluding airborne particulates, a figure of three times the occupational exposure limit is to be used when controlling short-term excursions in exposure.

“Respirable particulates” means the respirable fraction of airborne particulates.

"Inhalable particulates" means airborne particulates as collected by a personal gravimetric sampler without particle size selection.

ABBREVIATIONS

CAS	=	Chemical Abstracts Service is an organisation under the American Chemical Society. CAS Numbers are used to identify specific chemicals or mixtures.
ppm	=	parts per million
mg/m³	=	milligrams per cubic metre
Sk	=	Skin absorption
Sen	=	Capable of causing respiratory sensitisation
f/ml	=	fibres per millilitre

OCCUPATIONAL EXPOSURE LIMITS FOR AIRBORNE POLLUTANTS

Tabulation shows inhalable particulates unless indicated to be respirable

SUBSTANCE	FORMULA	CAS Numbers	OEL		OEL-STEL/OEL-C		Notes
			ppm	mg/m ³	ppm	mg/m ³	
Acetaldehyde	CH ₃ CHO	75-07-0	100	180	150	270	
Acetic acid	CH ₃ COOH	64-19-7	10	25	15	37	
Acetic anhydride	(CH ₃ CO) ₂ O	108-24-7	-	-	5	20	
Acetone	(CH ₃) ₂ CO	67-64-1	750	1780	1500	3560	
Acetonitrile	CH ₃ CN	75-05-8	40	70	60	105	
Acetylsalicylic acid [Aspirin]	CH ₃ COOC ₆ H ₄ COOH	50-78-2	-	5	-	-	
Acrolein	CH ₂ =CHCHO	107-02-8	0,1	0,25	0,3	0,8	
Acrylaldehyde	CH ₂ =CHCHO	107-02-8	see Acrolein				
*Acrylamide	CH ₂ =CHCONH ₂	79-06-1	-	0,3	-	-	Sk
Acrylic acid	CH ₂ =CHCOOH	79-10-7	10	30	20	60	
*Acrylonitrile	CH ₂ =CHCN	107-13-1	2	4	-	-	Sk
Aldrin	C ₁₂ H ₈ Cl ₆	309-00-2	-	0,25	-	0,75	Sk
Allyl alcohol	CH ₂ =CHCH ₂ OH	107-18-6	2	5	4	10	Sk
Allyl chloride	CH ₂ =CHCH ₂ Cl	107-05-1	1	3	2	6	
Allyl-2,3-epoxypropyl ether	C ₆ H ₁₀ O ₂	106-92-3	see Allyl glycidyl ether				
Allyl glycidyl ether [AGE]	C ₆ H ₁₀ O ₂	106-92-3	5	22	10	44	
Aluminium alkyl compounds	-	-	-	2	-	-	
Aluminium metal	Al	7429-90-5	-	-	-	-	
inhalable particulate			-	10	-	-	
respirable particulate			-	5	-	-	
Aluminium oxides	Al ₂ O ₃ , Al(OH) ₃ and AlOOH	1344-28-1	-	10	-	-	See Note [c]
inhalable particulate			-	5	-	-	
respirable particulate			-	2	-	-	
Aluminium salts, soluble	-	-	-	2	-	-	
Aminodimethylbenzene	(CH ₃) ₂ C ₆ H ₃ NH ₂	1300-73-8	see Xylidine				
2-Aminoethanol	NH ₂ CH ₂ CH ₂ OH	141-43-5	see Ethanolamine				
2-Aminopyridine	NH ₂ C ₅ H ₄ N	504-29-0	0,5	2	2	8	
Ammonia	NH ₃	7664-41-7	25	17	35	24	
Ammonium chloride, fume	NH ₄ Cl	12125-02-9	-	10	-	20	
Ammonium sulphamate	NH ₄ SO ₃ NH ₂	7773-06-0	-	10	-	20	
<i>n</i> -Amyl acetate	CH ₃ COO(CH ₂) ₄ CH ₃	628-63-7	100	530	150	800	
<i>sec</i> -Amyl acetate	CH ₃ COOCH(CH ₂) ₃ CH ₃	626-38-0	-	-	150	800	
Aniline	C ₆ H ₅ NH ₂	62-53-3	2	10	5	20	Sk
Anisidines, <i>o</i> - and <i>p</i> -isomers	NH ₂ C ₆ H ₄ OCH ₃	90-04-0 104-94-9	0,1	0,5	-	-	Sk
Antimony & compounds [as Sb] except antimony trisulphide and antimony trioxide	Sb	7440-36-0	-	0,5	-	-	
*Arsenic & compounds, except arsine [as As]	As	7440-38-2	-	0,1	-	-	
Arsine	AsH ₃	7784-42-1	0,05	0,2	-	-	
*Asbestos, all forms	-	1332-21-4	-	1 l/ml	-	-	
Asphalt, petroleum fumes	-	8052-42-4	-	5	-	10	
Atrazine	C ₆ H ₉ ClN ₃	1912-24-9	-	10	-	-	
Azinphos-methyl	C ₁₀ H ₁₁ O ₃ PS ₂ N ₃	86-50-0	-	0,2	-	0,6	Sk
Aziridine	CH ₂ NHCH ₂	151-56-4	see Ethyleneimine				
<i>gamma</i> -BHC	C ₆ H ₆ Cl ₆	58-89-9	see Lindane				
Barium compounds, soluble [as Ba]	-	7440-39-3	-	0,5	-	-	
Barium sulphate, respirable particulate	BaSO ₄	7727-43-7	-	2	-	-	
Benomyl	C ₁₄ H ₁₈ N ₂ O ₃	17804-35-2	-	10	-	15	
*Benzene	C ₆ H ₆	71-43-2	5	16	-	-	
Benzenethiol	C ₆ H ₅ SH	108-98-5	0,5	2	-	-	
Benzene-1,2,4,-tricarboxylic acid 1,2-anhydride	C ₈ H ₄ O ₃	552-30-7	see Trimellitic anhydride				
<i>p</i> -Benzoquinone	C ₆ H ₄ O ₂	106-51-4	see Quinone				
Benzoyl peroxide	(C ₆ H ₅ CO) ₂ O ₂	94-36-0	-	5	-	-	
Benzyl butyl phthalate	C ₁₉ H ₂₀ O ₄	85-68-7	see Butyl benzyl phthalate				
Benzyl chloride	C ₆ H ₅ CH ₂ Cl	100-44-7	1	5	-	-	
*Beryllium and beryllium compounds [as Be]	Be	7440-41-7 (metal)	-	0,002	-	-	
Biphenyl	(C ₆ H ₅) ₂	92-52-4	0,2	1,5	0,6	4	
*Bis(chloromethyl) ether [BCME]	ClCH ₂ OCH ₂ Cl	542-88-1	0,001	0,005	-	-	
Bis(2,3-epoxypropyl) ether	(OCH ₂ CHCH ₂) ₂ O	2238-07-5	See Diglycidyl ether				
Bis(2-ethylhexyl) phthalate	C ₂₄ H ₄₀ (COOCH ₂) ₂	117-81-7	see Di-(2-ethylhexyl) phthalate				

SUBSTANCE	FORMULA	CAS Numbers	OEL		OEL-STEL/ OEL-C		Notes
			ppm	mg/m ³	ppm	mg/m ³	
2,2-Bis(<i>p</i> -Methoxyphenyl)-1,1,1-trichloroethane (DMDT)	(C ₁₀ H ₇ OCH ₃) ₂ CHCl ₃	72-43-5	see Methoxychlor				
Bismuth telluride [as Bi ₂ Te ₃]	Bi ₂ Te ₃	1304-82-1	-	10	-	20	
Undoped			-	5	-	10	
Selenium-doped			-	-	-	-	
Borates, tetra, sodium salts							
Anhydrous	Na ₂ B ₄ O ₇	1330-43-4	-	1	-	-	
Decahydrate	Na ₂ B ₄ O ₇ ·10H ₂ O	1303-96-4	-	5	-	-	
Pentahydrate	Na ₂ B ₄ O ₇ ·5H ₂ O	12179-04-3	-	1	-	-	
Bornan-2-one	C ₁₀ H ₁₆ O	76-22-2	see Camphor, synthetic				
Boron oxide	B ₂ O ₃	1303-86-2	-	10	-	20	
Boron tribromide	BBr ₃	10294-33-4	-	-	1	10	
Boron trifluoride	BF ₃	7637-07-2	-	-	1	3	
Bromacil	C ₉ H ₁₀ BrN ₂ O ₂	314-40-9	1	10	2	20	
Bromine	Br ₂	7726-95-6	0,1	0,7	0,3	2	
Bromine pentafluoride	BrF ₅	7789-30-2	0,1	0,7	0,3	2	
Bromochloromethane	CH ₂ BrCl	74-97-5	see Chlorobromomethane				
Bromoethane	CH ₃ CH ₂ Br	74-96-4	see Ethyl bromide				
Bromoethylene	CH ₂ =CHBr	593-60-2	see Vinyl bromide				
Bromoform	CHBr ₃	75-25-2	0,5	5	-	-	Sk
Bromomethane	CH ₃ Br	74-83-9	see Methyl bromide				
Bromotrifluoromethane	CF ₃ Br	75-63-8	see Trifluorobromomethane				
*Buta-1,3-diene	CH ₂ =CHCH=CH ₂	106-99-0	10	22	-	-	
<i>n</i> -Butane	CH ₃ CH ₂ CH ₂ CH ₃	106-97-8	600	1430	750	1780	
Butan-1-ol	CH ₃ CH ₂ CH ₂ CH ₂ OH	71-36-3	see <i>n</i> -Butyl alcohol				
Butan-2-ol	CH ₃ CH(OH)CH ₂ CH ₃	78-92-2	see <i>sec</i> -Butyl alcohol				
Butan-2-one	CH ₃ COCH ₂ CH ₃	78-93-3	see Methyl ethyl ketone				
<i>trans</i> -But-2-enal	CH ₃ CH=CHCHO	4170-30-3	see Crotonaldehyde				
*2-Butoxyethanol [EGBE]	C ₈ H ₁₈ OCH ₂ CH ₂ OH	111-76-2	25	120	-	-	Sk
<i>n</i> -Butyl acetate	CH ₃ COO(CH ₂) ₃ CH ₃	123-86-4	150	710	200	950	
<i>sec</i> -Butyl acetate	CH ₃ COOC(CH ₃)CH ₂ CH ₃	105-46-4	200	950	250	1190	
<i>tert</i> -Butyl acetate	CH ₃ COOC(CH ₃) ₂	540-88-5	200	950	250	1190	
Butyl acrylate	CH ₂ =CHCOOCH ₂ CH ₂ CH ₂ CH ₃	141-32-2	10	55	-	-	
<i>n</i> -Butyl alcohol	CH ₃ CH ₂ CH ₂ CH ₂ OH	71-36-3	-	-	50	150	Sk
<i>sec</i> -Butyl alcohol	CH ₃ CH(OH)CH ₂ CH ₃	78-92-2	100	300	150	450	
<i>tert</i> -Butyl alcohol	(CH ₃) ₃ COH	75-65-0	100	300	150	450	
<i>n</i> -Butylamine	CH ₃ CH ₂ CH ₂ CH ₂ NH ₂	109-73-9	-	-	5	15	Sk
Butyl benzyl phthalate	C ₁₆ H ₂₂ O ₄	85-68-7	-	5	-	-	
<i>n</i> -Butyl chloroformate	CICO ₂ C ₄ H ₉	592-34-7	1	5,6	-	-	
<i>n</i> -Butyl glycidyl ether [BGE]	C ₈ H ₁₆ OCH ₂ CH ₂ CHO	2426-08-6	25	135	-	-	
<i>n</i> -Butyl lactate	CH ₃ CH(OH)COOCH ₂ CH ₂ CH ₂ CH ₃	138-22-7	5	25	-	-	
2- <i>sec</i> -Butylphenol	C ₁₀ H ₁₂ (CH ₃)CHC ₆ H ₄ OH	89-72-5	5	30	-	-	Sk
*Cadmium & cadmium compounds, except cadmium oxide fume, cadmium sulphide and cadmium sulphide pigments [as Cd]	Cd	7440-43-9 (metal)	-	0,025	-	-	
*Cadmium oxide fume [as Cd]	CdO	1306-19-0	-	0,025	-	0,050	
*Cadmium sulphide and cadmium sulphide pigments respirable particulate [as Cd]	CdS	1306-23-6	-	0,04	-	-	
Caesium hydroxide	CsOH	21351-79-1	-	2	-	-	
Calcium carbonate	CaCO ₃	1317-65-3					
inhalable particulate			-	10	-	-	
respirable particulate			-	5	-	-	
Calcium cyanamide	CaNC≡N	156-62-7	-	0,5	-	1	
Calcium cyanide	Ca(CN) ₂	592-01-8	see Hydrogen cyanide and cyanide salts				
Calcium hydroxide	Ca(OH) ₂	1305-62-0	-	5	-	-	
Calcium oxide	CaO	1305-78-8	-	2	-	-	
Calcium silicate	CaSiO ₃	1344-95-2					
inhalable particulate			-	10	-	-	
respirable particulate			-	5	-	-	
Camphor, synthetic	C ₁₀ H ₁₆ O	76-22-2	2	12	3	18	
Caprolactam	NH(CH ₂) ₆ CO	105-60-2					
inhalable particulate			-	1	-	3	
vapour			5	20	10	40	
Captafol	C ₁₀ H ₈ Cl ₂ NO ₂ S	2425-06-1	-	0,1	-	-	Sk
Captan	C ₈ H ₈ Cl ₂ NO ₂ S	133-06-2	-	5	-	15	
Carbaryl	CH ₃ NHCOOC ₁₀ H ₇	63-25-2	-	5	-	10	
Carbofuran	C ₁₂ H ₁₃ NO ₂	1563-66-2	-	0,1	-	-	
Carbon black	C	1333-86-4	-	3,5	-	7	

SUBSTANCE	FORMULA	CAS Numbers	OEL		OEL-STEL/ OEL-C		Notes	
			ppm	mg/m ³	ppm	mg/m ³		
Carbon dioxide	CO ₂	124-38-9	5000	9000	C 30000	C 54000		
*Carbon disulphide	CS ₂	75-15-0	10	30	-	-	Sk	
Carbon monoxide	CO	630-08-0	50	55	C 100	-		
Carbon tetrabromide	CBR ₄	558-13-4	0,1	1,4	0,3	4		
Carbon tetrachloride	CCl ₄	56-23-5	2	12,6	-	-	Sk	
Carbonyl chloride	COCl ₂	75-44-5	see Phosgene					
Catechol	C ₆ H ₄ (OH) ₂	120-80-9	5	20	-	-		
Cellulose	(C ₆ H ₁₀ O ₅) _n	9004-34-6						
inhalable particulate			-	10	-	20		
respirable particulate			-	5	-	-		
Cement								
inhalable particulate			-	10	-	-		
respirable particulate			-	5	-	-		
Chlordane	C ₁₀ H ₆ Cl ₄	57-74-9	-	0,5	-	2	Sk	
Chlorine	Cl ₂	7782-50-5	0,5	1,5	1	3		
Chlorodiphenyl (PCBs)								
Chlorodiphenyl (42% chlorine)	C ₁₂ H ₆ Cl ₂ C ₆ H ₄ Cl ₂ (Approx)	53469-21-9	-	1	-	2	Sk	
Chlorodiphenyl (54% chlorine)	C ₁₂ H ₄ Cl ₂ C ₆ H ₄ Cl ₂ (Approx)	11097-69-1	-	0,5	-	1	Sk	
Chlorine dioxide	ClO ₂	10049-04-4	0,1	0,3	0,3	0,9		
Chlorine trifluoride	ClF ₃	7790-91-2	-	-	0,1	0,4		
Chloroacetaldehyde	ClCH ₂ CHO	107-20-0	-	-	1	3		
2-Chloroacetophenone	C ₈ H ₇ ClO	532-27-4	0,05	0,3	-	-		
Chloroacetyl chloride	ClCH ₂ COCl	79-04-9	0,05	0,2	-	-		
Chlorobenzene	C ₆ H ₅ Cl	108-90-7	50	230	-	-		
Chlorobromomethane	CH ₂ BrCl	74-97-5	200	1050	250	1300		
2-Chlorobuta-1,3-diene	CH ₂ =CClCH=CH ₂	126-99-8	see beta-Chloroprene					
Chlorodifluoromethane	CHClF ₂	75-45-6	1000	3500	-	-		
*1-Chloro-2,3-epoxy propane	C ₃ H ₅ OCl	106-89-8	see *Epichlorohydrin					
Chloroethane	CH ₃ CH ₂ Cl	75-00-3	see Ethyl chloride					
2-Chloroethanol	CH ₂ ClCH ₂ OH	107-07-3	see Ethylene chlorohydrin					
*Chloroethylene (VCM)	H ₂ C=CHCl	75-01-4	see *Vinyl chloride					
Chloroform	CHCl ₃	67-66-3	2	9,8	-	-	Sk	
Chloromethane	CH ₃ Cl	74-87-3	see Methyl chloride					
1-Chloro-4-nitrobenzene	ClC ₆ H ₄ NO ₂	100-00-5	-	1	-	2	Sk	
Chloropentafluoroethane	CClF ₂ CF ₃	76-15-3	1000	6320	-	-		
Chloropicrin	CCl ₃ NO ₂	76-06-2	0,1	0,7	0,3	2		
beta-Chloroprene	CH ₂ =CClCH=CH ₂	126-99-8	10	36	-	-	Sk	
3-Chloropropylene	CH ₂ =CHCH ₂ Cl	107-05-1	see Allyl chloride					
Chlorosulphonic acid	HSO ₃ Cl	7790-94-5	-	1	-	-		
alpha-Chlorotoluene	C ₆ H ₄ CH ₂ Cl	100-44-7	see Benzyl chloride					
2-Chlorotoluene	ClC ₆ H ₄ CH ₃	95-49-8	50	250	-	-		
2-Chloro-6-(trichloromethyl) pyridine	ClC ₆ H ₃ NCCl ₃	1929-82-4	see Nitrapyrin					
Chlorpyrifos	C ₈ H ₇ Cl ₃ NO ₂ PS	2921-88-2	-	0,2	-	0,6	Sk	
Chromium, metal and inorganic compounds [as Cr]	Cr	7440-47-3 (metal)						
Cr [II] compounds			-	0,5	-	-		
Metal and Cr [III] compounds			-	0,5	-	-		
*Cr [VI] compounds			-	0,05	-	-		
Coal dust [respirable particulate] <5% crystalline quartz/silica >5% crystalline quartz/silica			see Silica - Crystalline (Quartz)					
Coal tar pitch volatiles [as cyclohexane solu]		65996-93-2	-	0,14	-	-		
*Cobalt & cobalt compounds [as Co]	Co		-	0,1	-	-		
Copper	Cu							
fume		1317-38-0	-	0,2	-	-		
Dusts & mists [as Cu]		7440-50-8	-	1	-	2		
Cotton dust			-	0,5	-	-		
Cresols, all isomers	CH ₃ C ₆ H ₄ OH	1319-77-3	5	22	-	-	Sk	
Cristobalite		14464-46-1	see Silica, crystalline					
Crotonaldehyde	CH ₃ CH=CHCHO	4170-30-3	2	6	6	18		
Cryofluorane [INN]	CClF ₂ CClF ₂	76-14-2	see 1,2-Dichlorotetrafluoroethane					
Cumene	C ₉ H ₈ CH(CH ₃) ₂	98-82-8	25	120	75	370	Sk	
Cyanamide	NH ₂ CN	420-04-2	-	2	-	-		
Cyanides, except hydrogen cyanide, cyanogen & cyanogen chloride		57-12-5	see Hydrogen cyanide and cyanide salts					
Cyanogen	(CN) ₂	460-19-5	10	20	-	-		
Cyanogen chloride	CICN	506-77-4	-	-	0,3	0,6		

SUBSTANCE	FORMULA	CAS Numbers	OEL		OEL-STEL/ OEL-C		Notes
			ppm	mg/m ³	ppm	mg/m ³	
Cyclohexane	C ₆ H ₁₂	110-82-7	100	340	300	1030	
Cyclohexanol	C ₆ H ₁₁ OH	108-93-0	50	200	-	-	
Cyclohexanone	C ₆ H ₁₀ O	108-94-1	25	100	100	400	
Cyclohexene	C ₆ H ₁₀	110-83-8	300	1015	-	-	
Cyclohexylamine	C ₆ H ₁₁ NH ₂	108-91-8	10	40	-	-	
Cyclonite [RDX]	C ₃ H ₆ N ₆ O ₆	121-82-4	-	1,5	-	3	Sk
Cyhexatin	(C ₆ H ₁₁) ₃ SnOH	13121-70-5	-	5	-	10	
2,4-D	C ₈ H ₇ Cl ₂ OCH ₂ COOH	94-75-7	-	10	-	20	
DDT	(C ₆ H ₄ Cl) ₂ CHCCl ₃	50-29-3	-	1	-	3	
DDVP	(CH ₃ O) ₂ POOCH=CCl ₂	62-73-7	see Dichlorvos				
2,4-DES	C ₈ H ₇ Cl ₂ NaO ₂ S	136-78-7	see Sodium 2,4-dichlorophenoxyethyl sulphate				
DMDT	(C ₆ H ₄ OCH ₃) ₂ CHCCl ₃	72-43-5	see Methoxychlor				
Derris, commercial	C ₂₀ H ₂ O ₈	83-79-4	see Rotenone				
Diacetone alcohol	CH ₃ COCH ₂ C(CH ₃) ₂ OH	123-42-2	50	240	75	360	
Dialkyl 79 phthalate	C ₈ H ₄ (COO C ₉ H ₁₅₋₁₉) ₂	-	-	5	-	-	
Diallyl phthalate	C ₈ H ₄ (COOCH ₂ CHCH ₂) ₂	131-17-9	-	5	-	-	
2,2'-Diaminodiethylamine	(NH ₂ CH ₂ CH ₂) ₂ NH	111-40-0	see Diethylene triamine				
*4,4'-Diaminodiphenylmethane [DADPM, DDM]	CH ₂ (C ₆ H ₄ NH ₂) ₂	101-77-9	see *4,4'-Methylenedianiline				
1,2-Diaminoethane	NH ₂ CH ₂ CH ₂ NH ₂	107-15-3	see Ethylene diamine				
Diammonium peroxodisulphate [as S ₂ O ₈]	(NH ₄) ₂ S ₂ O ₈	7727-54-0	-	1	-	-	
Diatomaceous earth, natural [respirable particulate]	SiO ₂	68855-54-9	-	1,5	-	-	
Diazinon	C ₁₂ H ₂₁ N ₃ O ₃ PS	333-41-5	-	0,1	-	0,3	Sk
Diazomethane	CH ₂ N ₂	334-88-3	0,2	0,4	-	-	
Dibenzoyl peroxide	(C ₆ H ₅ CO) ₂ O ₂	94-36-0	see Benzoyl peroxide				
Dibismuth telluride	B ₂ Te ₃	1304-82-1	see Bismuth telluride				
Diborane	B ₂ H ₆	19287-45-7	0,1	0,1	-	-	
Diboron trioxide	B ₂ O ₃	1303-86-2	see Boron oxide				
Dibrom	C ₂ H ₄ Br ₂ Cl ₂ O ₃ P	300-76-5	see Naled				
1,2-Dibromo-2,2-dichloroethyl dimethyl phosphate	C ₂ H ₄ Br ₂ Cl ₂ O ₃ P	300-76-5	see Naled				
Dibromodifluoromethane	CB ₂ F ₂	75-61-6	100	860	150	1290	
*1,2-Dibromoethane	BrCH ₂ CH ₂ Br	106-93-4	see *Ethylene dibromide				
Dibutyl hydrogen phosphate	(C ₄ H ₉ O) ₂ (OH)PO	107-66-4	see Dibutyl phosphate				
Dibutyl phosphate	(C ₄ H ₉ O) ₂ (OH)PO	107-66-4	1	5	2	10	
Dibutyl phthalate	C ₈ H ₄ (CO ₂ C ₄ H ₉) ₂	84-74-2	-	5	-	10	
Dichloroacetylene	ClC=CCl	7572-29-4	-	-	0,1	0,4	
1,2-Dichlorobenzene	C ₆ H ₄ Cl ₂	95-50-1	-	-	50	300	
1,4-Dichlorobenzene	C ₆ H ₄ Cl ₂	106-46-7	25	150	50	300	
Dichlorodifluoromethane	CCl ₂ F ₂	75-71-8	1000	4950	1250	6200	
1,3-Dichloro-5,5-dimethyl hydantoin	C ₇ H ₄ Cl ₂ N ₂ O ₂	118-52-5	-	0,2	-	0,4	
Dichlorodiphenyltrichloroethane	(C ₆ H ₄ Cl) ₂ CHCCl ₃	50-29-3	see DDT				
1,1-Dichloroethane	CH ₃ CHCl ₂	75-34-3	200	810	400	1620	
*1,2-Dichloroethane	ClCH ₂ CH ₂ Cl	107-06-2	see *Ethylene dichloride				
*1,1-Dichloroethylene	CH ₂ =CCl ₂	75-35-4	see *Vinylidene chloride				
1,2-Dichloroethylene, cis & trans isomers	ClCH=CHCl	540-59-0	200	790	250	1000	
Dichlorofluoromethane	CHCl ₂ F	75-43-4	10	40	-	-	
*Dichloromethane	CH ₂ Cl ₂	75-09-2	see *Methylene chloride				
*2,2'-Dichloro-4,4'-methylene dianiline	CH ₂ (C ₆ H ₃ ClNH ₂) ₂	101-14-4	see *4,4'-Methylenebis(2-chloroaniline)				
2,4-Dichlorophenoxyacetic acid	C ₈ H ₅ Cl ₂ OCH ₂ COOH	94-75-7	see 2,4-D				
1,3-Dichloropropene, cis & trans isomers	ClHC=CHCH ₂ Cl	542-75-6	1	5	10	50	Sk
1,2-Dichlorotetrafluoroethane	CClF ₂ CClF ₂	76-14-2	1000	7000	1250	8750	
Dichlorvos	(CH ₃ O) ₂ POOCH=CCl ₂	62-73-7	0,1	1	0,3	3	Sk
Dicyclohexyl phthalate	C ₈ H ₄ (COO C ₆ H ₁₁) ₂	84-61-7	-	5	-	-	
Dicyclopentadiene	C ₁₀ H ₁₂	77-73-6	5	30	-	-	
Dicyclopentadienyl iron	(C ₅ H ₅) ₂ Fe	102-54-5	-	10	-	20	
Dieldrin	C ₁₂ H ₇ Cl ₅ O	60-57-1	-	0,25	-	0,75	Sk
Diethanolamine	(CH ₂ CH ₂ OH) ₂ NH	111-42-2	3	15	-	-	
Diethylamine	(C ₂ H ₅) ₂ NH	109-89-7	10	30	25	75	
2-Diethylaminoethanol	(C ₂ H ₅) ₂ NCH ₂ CH ₂ OH	100-37-8	10	50	-	-	Sk
Diethylene glycol	(CH ₂ CH ₂ OH) ₂ O	111-46-6	23	100	-	-	
Diethylene triamine	(NH ₂ CH ₂ CH ₂) ₃ NH	111-40-0	1	4	-	-	Sk
Diethyl ether	C ₂ H ₅ OC ₂ H ₅	60-29-7	see Ethyl ether				
Di-(2-ethylhexyl) phthalate [DEHP]	C ₈ H ₄ (COO C ₈ H ₁₇) ₂	117-81-7	-	5	-	10	

SUBSTANCE	FORMULA	CAS Numbers	OEL		OEL-STEL/OEL-C		Notes
			ppm	mg/m ³	ppm	mg/m ³	
Diethyl ketone	CH ₃ CH ₂ COCH ₂ CH ₃	96-22-0	200	700	250	875	
Diethyl phthalate	C ₈ H ₈ (COOC ₂ H ₅) ₂	84-66-2	-	5	-	10	
Difluorochloromethane	CHClF ₂	75-45-6	see Chlorodifluoromethane				
Diglycidyl ether [DGE]	(OCH ₂ CHCH ₂) ₂ O	2238-07-5	0,1	0,6	-	-	
<i>o</i> -Dihydroxybenzene	C ₆ H ₄ (OH) ₂	120-80-9	see Catechol				
<i>m</i> -Dihydroxybenzene	C ₆ H ₄ (OH) ₂	108-46-3	see Resorcinol				
<i>p</i> -Dihydroxybenzene	C ₆ H ₄ (OH) ₂	123-31-9	see Hydroquinone				
1,2-Dihydroxyethane	HOCH ₂ CH ₂ OH	107-21-1	see Ethylene glycol				
Diisobutyl ketone	[(CH ₃) ₂ CHCH ₂] ₂ CO	108-83-8	25	150	-	-	
Diisobutyl phthalate	C ₈ H ₈ (COOC ₂ H ₅ CH(CH ₃) ₂) ₂	84-69-5	-	5	-	-	
Diisodecyl phthalate	(C ₁₀ H ₂₁ CO ₂) ₂ C ₆ H ₄	26761-40-0	-	5	-	-	
Diisononyl phthalate	C ₈ H ₈ (COOC ₉ H ₁₉) ₂	28553-12-0	-	5	-	-	
Diisooctyl phthalate	C ₈ H ₈ (CO ₂ C ₈ H ₁₇) ₂	27554-26-3	-	5	-	-	
Diisopropylamine	(CH ₃) ₂ CHNHCH(CH ₃) ₂	108-18-9	5	20	-	-	
Diisopropyl ether	(CH ₃) ₂ CHOCH(CH ₃) ₂	108-20-3	see Isopropyl ether				
Di-linear 79 phthalate	C ₈ H ₈ (COOC ₇ H ₁₃₋₁₉) ₂	-	see Dialkyl 79 phthalate				
Dimethoxymethane	CH ₂ (OCH ₃) ₂	109-87-5	see Methylal				
<i>N,N</i> -Dimethylacetamide	CH ₃ CON(CH ₃) ₂	127-19-5	10	36	20	71	Sk
Dimethylamine	(CH ₃) ₂ NH	124-40-3	10	18	-	-	
<i>N,N</i> -Dimethylaniline	C ₆ H ₅ N(CH ₃) ₂	121-69-7	5	25	10	50	Sk
1,3-Dimethylbutyl acetate	C ₈ H ₁₆ O ₂	108-84-9	see <i>sec</i> -Hexyl acetate				
Dimethyl ether	CH ₃ OCH ₃	115-10-6	400	750	500	940	
<i>N,N</i> -Dimethylethylamine [DMEA]	C ₂ H ₅ (CH ₃) ₂ N	598-56-1	10	30	15	45	
Dimethylformamide	HCON(CH ₃) ₂	68-12-2	10	30	20	60	Sk
2,6-Dimethylheptan-4-one	[(CH ₃) ₂ CHCH ₂] ₂ CO	108-83-8	see Diisobutyl ketone				
Dimethyl phthalate	C ₈ H ₈ (COOCH ₃) ₂	131-11-3	-	5	-	10	
Dimethyl sulphate	(CH ₃) ₂ SO ₄	77-78-1	0,1	0,5	0,1	0,5	Sk
Dinitrobenzene, all isomers	C ₆ H ₄ (NO ₂) ₂	25154-54-5	0,15	1	0,5	3	Sk
Dinitro- <i>o</i> -cresol	CH ₃ C ₆ H ₃ (OH)(NO ₂) ₂	534-52-1	-	0,2	-	0,6	Sk
Dinitrotoluene	CH ₃ C ₆ H ₄ (NO ₂) ₂	25321-14-6	-	1,5	-	5	Sk
Dinonyl phthalate	C ₈ H ₈ (COOC ₉ H ₁₉) ₂	84-76-4	-	5	-	-	
<i>Di-sec</i> -octyl phthalate	C ₈ H ₈ (COOC ₈ H ₁₇) ₂	117-81-7	see Di-(2-ethylhexyl) phthalate				
1,4-Dioxane, tech grade	OCH ₂ CH ₂ OCH ₂ CH ₂	123-91-1	25	90	100	360	Sk
Dioxathion	C ₁₂ H ₂₀ O ₂ P ₂ S ₂	78-34-2	-	0,2	-	-	Sk
Diphenyl	(C ₆ H ₅) ₂	92-52-4	see Biphenyl				
Diphenylamine	(C ₆ H ₅) ₂ NH	122-39-4	-	10	-	20	
Diphenyl ether [vapour]	C ₆ H ₅ OC ₆ H ₅	101-84-8	see Phenyl ether				
Diphosphorus pentasulphide	P ₂ S ₅ / P ₂ S ₁₀	1314-80-3	see Phosphorus pentasulphide				
Diphosphorus pentoxide	P ₂ O ₅ / P ₄ O ₁₀	1314-56-3	-	-	-	2	
Dipotassium peroxodisulphate [as S ₂ O ₈]	K ₂ S ₂ O ₈	7727-21-1	-	1	-	-	
Diquat dibromide	C ₁₂ H ₁₈ Br ₂ N ₂	85-00-7	-	0,5	-	1	
Disodium disulphite	Na ₂ S ₂ O ₃	7681-57-4	see Sodium metabisulphate				
Disodium peroxodisulphate [as S ₂ O ₈]	Na ₂ S ₂ O ₈	7775-27-1	-	1	-	-	
Disodium tetraborate	Na ₂ B ₄ O ₇	1330-33-4	see Borates, tetra, sodium salts				
Disulfoton	(C ₂ H ₅ O) ₂ PSCH ₂ CH ₂ SC ₂ H ₅	298-04-4	-	0,1	-	0,3	
Disulphur decafluoride	S ₂ F ₁₀	5714-22-7	see Sulphur pentafluoride				
Disulphur dichloride	S ₂ Cl ₂	10025-67-9	see Sulphur monochloride				
2,6-Di- <i>tert</i> -butyl- <i>p</i> -cresol	(C ₄ H ₉) ₂ CH ₂ C ₆ H ₃ (OH)	128-37-0	-	10	-	-	
6,6-Di- <i>tert</i> -butyl-4,4-thiodi- <i>m</i> -cresol	(CH ₂ (OH)CH ₂ C(CH ₃) ₂) ₂ S	96-69-5	see 4,4'-Thiobis(6- <i>tert</i> -butyl- <i>m</i> -cresol)				
Diuron	C ₉ H ₁₀ Cl ₂ N ₂ O	330-54-1	-	10	-	-	
Divanadium pentoxide	V ₂ O ₅	1314-62-1	see Vanadium pentoxide				
Divinyl benzene [DVB]	C ₈ H ₈ (HC=CH ₂) ₂	1321-74-0	10	50	-	-	
Emery inhalable particulate respirable particulate	Al ₂ O ₃	1302-74-5	-	10	-	-	
Endosulfan	C ₈ H ₆ Cl ₄ O ₂ S	115-29-7	-	0,1	-	0,3	Sk
Endrin	C ₁₂ H ₆ Cl ₆ O	72-20-8	-	0,1	-	0,3	Sk
Enflurane	CHFClCFC ₂ OCHF ₂	13838-16-9	50	380	-	-	
*Epichlorohydrin	C ₃ H ₇ OCl	106-89-8	0,5	2	1,5	6	Sk
1,2-Epoxy-4-epoxyethyl-cyclohexane	C ₈ H ₁₄ O ₂	106-87-6	see 4-Vinyl cyclohexene dioxide				
2,3-Epoxypropyl isopropyl ether	C ₈ H ₁₆ O ₂	4016-14-2	see Isopropyl glycidyl ether				
Ethane-1,2-diol	HOCH ₂ CH ₂ OH	107-21-1	see Ethylene glycol				
Ethanethiol	CH ₃ CH ₂ SH	75-08-1	see Ethyl mercaptan				
Ethanol	CH ₃ CH ₂ OH	64-17-5	1000	1900	-	-	
Ethanolamine	NH ₂ CH ₂ CH ₂ OH	141-43-5	3	8	6	15	
Ether	C ₂ H ₅ OC ₂ H ₅	60-29-7	see Ethyl ether				

SUBSTANCE	FORMULA	CAS Numbers	OEL		OEL-STEL/ OEL-C		Notes	
			ppm	mg/m ³	ppm	mg/m ³		
*2-Ethoxyethanol [EGEE]	CH ₃ CH ₂ OCH ₂ CH ₂ OH	110-80-5	10	37	-	-	Sk	
*2-Ethoxyethyl acetate [EGEEA]	C ₂ H ₅ OCH ₂ CH ₂ OOCC ₂ H ₅	111-15-9	10	54	-	-	Sk	
Ethyl acetate	CH ₃ COOCH ₂ CH ₃	141-78-6	400	1400	-	-		
Ethyl acrylate	CH ₂ =CHCOOCH ₂ CH ₃	140-88-5	5	20	15	60		
Ethyl alcohol	CH ₃ CH ₂ OH	64-17-5	see Ethanol					
Ethylamine	CH ₃ CH ₂ NH ₂	75-04-7	10	18	-	-		
Ethyl amyl ketone	C ₈ H ₁₆ O	541-85-5	25	130	-	-		
Ethyl benzene	CH ₃ CH ₂ C ₆ H ₅	100-41-4	100	435	125	545		
Ethyl bromide	CH ₃ CH ₂ Br	74-96-4	200	890	250	1110		
Ethyl butyl ketone	CH ₃ CH ₂ CO(CH ₂) ₃ CH ₃	106-35-4	50	240	75	345		
Ethyl chloride	CH ₃ CH ₂ Cl	75-00-3	1000	2600	1250	3250		
Ethyl chloroformate	ClCO ₂ C ₂ H ₅	541-41-3	1	4,4	-	-		
Ethylene chlorohydrin	CH ₂ ClCH ₂ OH	107-07-3	-	-	1	3	Sk	
Ethylene diamine	NH ₂ CH ₂ CH ₂ NH ₂	107-13-3	10	25	-	-		
*Ethylene dibromide	BrCH ₂ CH ₂ Br	106-93-4	0,5	4	-	-	Sk	
*Ethylene dichloride	ClCH ₂ CH ₂ Cl	107-06-2	5	20	-	-	Sk	
Ethylene dinitrate	O ₂ NOCH ₂ CH ₂ ONO ₂	628-96-6	see Ethylene glycol dinitrate					
Ethylene glycol inhalable particulate vapour	HOCH ₂ CH ₂ OH	107-21-1	-	10	-	-		
			-	60	-	125		
Ethylene glycol dinitrate [EGDN]	O ₂ NOCH ₂ CH ₂ ONO ₂	628-96-6	0,2	1,2	0,2	1,2	Sk	
*Ethylene glycol monobutyl ether [EGBE]	C ₄ H ₉ OCH ₂ CH ₂ OH	111-76-2	see *2-Butoxyethanol					
*Ethylene glycol monoethyl ether [EGEE]	CH ₃ CH ₂ OCH ₂ CH ₂ OH	110-80-5	See *2-Ethoxyethanol					
*Ethylene glycol monoethyl ether acetate [EGEEA]	C ₂ H ₅ OCH ₂ CH ₂ OOCC ₂ H ₅	111-15-9	see *2-Ethoxyethyl acetate					
*Ethylene glycol monomethyl ether [EGME]	CH ₃ OCH ₂ CH ₂ OH	109-86-4	see *2-Methoxyethanol					
*Ethylene glycol monomethyl ether acetate [EGMEA]	CH ₃ COOCH ₂ CH ₂ OCH ₃	110-49-6	see *2-Methoxyethyl acetate					
Ethylencimine	CH ₂ NHCH ₂	151-56-4	0,5	1	-	-	Sk	
*Ethylene oxide	CH ₂ CH ₂ O	75-21-8	5	10	-	-		
Ethyl ether	C ₂ H ₅ OC ₂ H ₅	60-29-7	400	1200	500	1500		
Ethyl formate	CH ₃ CH ₂ OCHO	109-94-4	100	300	150	450		
2-Ethylhexyl chloroformate	ClCO ₂ CH ₂ CH(CH ₂) ₅ CH ₃	24468-13-1	1	7,9	-	-		
Ethylidene dichloride	CH ₂ CHCl ₂	75-34-3	see 1,1-Dichloroethane					
Ethyl mercaptan	CH ₃ CH ₂ SH	75-08-1	0,5	1	2	3		
4-Ethylmorpholine	C ₄ H ₉ ONCH ₂ CH ₂	100-74-3	5	23	20	95	Sk	
Ethyl silicate	Si(OC ₂ H ₅) ₄	78-10-4	10	85	30	255		
Fenchlorphos	(CH ₃ O) ₂ PSOC ₂ H ₅ Cl ₃	299-84-3	see Ronnel					
Ferbam	[(CH ₃) ₂ NCSS] ₂ Fe	14484-64-1	-	10	-	20		
Ferrocene	(C ₅ H ₅) ₂ Fe	102-54-5	see Dicyclopentadienyl iron					
Ferrovandium dust	FeV	12604-58-9	-	1	-	3		
Flammable gas (methane/hydrogen)			-	-	C 1,4%	-	See Note [e]	
Fluorides [as F]	F	16984-48-8	-	2,5	-	-		
Fluorine	F ₂	7782-41-4	-	-	1	1,5		
Fluorodichloromethane	CHCl ₂ F	75-43-4	see Dichlorofluoromethane					
Fluorotrichloromethane	CCl ₃ F	75-69-4	see Trichlorofluoromethane					
*Formaldehyde	HCHO	50-00-0	2	2,5	2	2,5		
Formamide	HCONH ₂	75-12-7	20	30	30	45		
Formic acid	HCOOH	64-18-6	5	9	-	-		
2-Furaldehyde	C ₅ H ₄ O ₂	98-01-1	see Furfural					
Furfural	C ₅ H ₄ O ₂	98-01-1	2	8	10	40	Sk	
Furfuryl alcohol	OCH=CHCH=CCH ₂ OH	98-00-0	5	20	15	60	Sk	
Gasoline		8006-61-9	300	-	500	-		
Germane	GeH ₄	7782-65-2	see Germanium tetrahydride					
Germanium tetrahydride	GeH ₄	7782-65-2	0,2	0,6	0,6	1,8		
Glutaraldehyde	OCH(CH ₂) ₃ CHO	111-30-8	-	-	0,2	0,7		
Glycerol, mist	HOCH ₂ CH(OH)CH ₂ OH	56-81-5	-	10	-	-		
Glycerol trinitrate	CH ₂ NO ₂ CHNO ₂ CH ₂ NO ₂	55-63-0	see Nitroglycerine					
Glycol monoethyl ether	CH ₃ CH ₂ OCH ₂ CH ₂ OH	110-80-5	see *2-Ethoxyethanol					
Graphite, natural & synthetic inhalable particulate respirable particulate	C	7440-44-0 7782-42-5	-	10	-	-		
			-	5	-	-		
*Grain dust (oat, wheat, barley)			-	10	-	-	Sen	
Guthion	C ₁₀ H ₁₂ O ₂ PS ₂ N ₂	86-50-0	see Azinphos-methyl					
Gypsum inhalable particulate respirable particulate	CaSO ₄ ·2H ₂ O	13397-24-5	-	10	-	-		
			-	5	-	-		

SUBSTANCE	FORMULA	CAS Numbers	OEL		OEL-STEL/ OEL-C		Notes	
			ppm	mg/m ³	ppm	mg/m ³		
<i>gamma</i> -HCH	C ₆ H ₆ Cl ₆	58-89-9	see Lindane					
Hafnium	Hf	7440-58-6	-	0,5	-	1,5		
Halothane	CF ₃ CHClBr	151-67-7	10	80	-	-		
Heptachlor	C ₁₀ H ₆ Cl ₇	76-44-8	-	0,5	-	2	Sk	
<i>n</i> -Heptane	CH ₃ (CH ₂) ₅ CH ₃	142-82-5	400	1600	500	2000		
Heptan-2-one	CH ₃ CO(CH ₂) ₃ CH ₃	110-43-0	see Methyl <i>n</i> -amyl ketone					
Heptan-3-one	CH ₃ CH ₂ CO(CH ₂) ₃ CH ₃	106-35-4	see Ethyl butyl ketone					
<i>gamma</i> -Hexachlorocyclohexane	C ₆ H ₆ Cl ₆	58-89-9	see Lindane					
Hexachloroethane vapour	CCl ₃ CCl ₃	67-72-1	5	50	-	-		
inhalable particulate			-	10	-	-		
respirable particulate			-	5	-	-		
Hexahydro-1,3,5-trinitro-1,3,5-triazine	C ₃ H ₃ N ₆ O ₆	121-82-4	see Cyclonite					
Hexane, all isomers except <i>n</i> -Hexane	C ₆ H ₁₄	-	500	1800	1000	3600		
<i>n</i> -Hexane	CH ₃ (CH ₂) ₄ CH ₃	110-54-3	20	70	-	-		
1,6-Hexanolactam	NH(CH ₂) ₅ CO	105-60-2	see Caprolactam					
Hexan-2-one	CH ₃ CO(CH ₂) ₃ CH ₃	591-78-6	see Methyl- <i>n</i> -butyl ketone					
Hexone	CH ₃ COCH ₂ CH(CH ₃) ₂	108-10-1	see Methyl isobutyl ketone					
<i>sec</i> -Hexyl acetate	C ₈ H ₁₆ O ₂	108-84-9	50	300	100	600		
Hexylene glycol	(CH ₂) ₆ COHCH ₂ CHOHCH ₂	107-41-5	25	125	25	125		
Hydrazine	H ₂ NNH ₂	302-01-2	0,1	0,1	-	-	Sk	
Hydrazoic acid [as vapour]	HN ₃	7782-79-8	-	-	0,1	-		
Hydrogen	H ₂	1333-74-0	-	-	C 1,4 %	-	See Note [d]	
Hydrogen bromide	HBr	10035-10-6	-	-	3	10		
Hydrogen chloride	HCl	7647-01-0	-	-	5	7		
Hydrogen cyanide and cyanide salts [as CN]								
*Hydrogen cyanide	HCN	74-90-8	-	-	C 10	C 10	Sk	
Calcium cyanide	Ca(CN) ₂	592-01-8	-	-	-	C 5	Sk	
Potassium cyanide	KCN	151-50-8	-	-	-	C 5	Sk	
Sodium cyanide	NaCN	143-33-9	-	-	-	C 5	Sk	
Hydrogen fluoride [as F]	HF	7664-39-3	-	-	3	2,5		
Hydrogen peroxide	H ₂ O ₂	7722-84-1	1	1,5	2	3		
Hydrogen selenide [as Se]	H ₂ Se	7783-07-5	0,05	0,2	-	-		
Hydrogen sulphide	H ₂ S	7783-06-4	10	14	15	21		
Hydroquinone	C ₆ H ₄ (OH) ₂	123-31-9	-	2	-	4		
4-Hydroxy-4-methyl-pentan-2-one	CH ₃ COCH ₂ C(CH ₃) ₂ OH	123-42-2	see Diacetone alcohol					
2-Hydroxypropyl acrylate	C ₆ H ₁₀ O ₃	999-61-1	0,5	3	-	-	Sk	
2,2'-Iminodiethanol	(CH ₂) ₂ CH(OH) ₂ NH	111-42-2	see Diethanolamine					
2,2'-Iminodi(ethylamine)	(NH ₂ CH ₂ CH ₂) ₂ NH	111-40-0	see Diethylene triamine					
Indene	C ₉ H ₈	95-13-6	10	45	15	70		
Indium & compounds [as In]	In	7440-74-6	-	0,1	-	0,3		
Iodine	I ₂	7533-56-2	-	-	0,1	1		
Iodoform	CHI ₃	75-47-8	0,6	10	1	20		
Iodomethane	CHI ₃	74-88-4	see Methyl iodide					
Iron oxide, dust & fume [as Fe]	Fe ₂ O ₃	1309-37-1	-	5	-	10		
Iron pentacarbonyl	Fe(CO) ₅	13463-40-6	0,01	0,08	-	-		
Iron salts [as Fe]			-	1	-	2		
Isoamyl acetate	CH ₃ COOCH ₂ CH ₂ CH(CH ₃) ₂	123-92-2	100	525	125	655		
Isoamyl alcohol	(CH ₃) ₂ CHCH ₂ CH ₂ OH	123-51-3	100	360	125	450		
Isoamyl methyl ketone	CH ₃ COCH ₂ CH ₂ CH(CH ₃) ₂	110-12-3	see Methyl isoamyl ketone					
Isobutyl acetate	CH ₃ COOCH ₂ CH(CH ₃) ₂	110-19-0	150	700	187	875		
Isobutyl alcohol	(CH ₃) ₂ CHCH ₂ OH	78-83-1	50	150	75	225		
Isobutyl methyl ketone	CH ₃ COCH ₂ CH(CH ₃) ₂	108-10-1	see Methyl isobutyl ketone					
*Isocyanates, all [as -NCO]			-	0,02	-	0,07	Sen	
Isoflurane	CF ₃ CHClOCHF ₂	26675-46-7	50	380	-	-		
Isooctyl alcohol [mixed isomers]	C ₈ H ₁₇ OH	26952-21-6	50	270	-	-		
Isopentyl acetate	CH ₃ COOCH ₂ CH ₂ CH(CH ₃) ₂	123-92-2	see Isoamyl acetate					
Isophorone	C ₈ H ₁₆ O	78-59-1	-	-	5	25		
Isophorone diisocyanate [IPDI]	C ₁₂ H ₁₈ N ₂ O ₂	4098-71-9	see *Isocyanates					
Isopropyl acetate	CH ₃ COOCH(CH ₃) ₂	108-21-4	-	-	200	840		
Isopropyl alcohol	(CH ₃) ₂ CHOH	67-63-0	400	980	500	1225		
Isopropyl benzene	C ₆ H ₅ CH(CH ₃) ₂	98-82-8	see Cumene					
Isopropyl chloroformate	ClCO ₂ CH(CH ₃) ₂	108-23-6	1	5	-	-		
Isopropyl ether	(CH ₃) ₂ CHOCH(CH ₃) ₂	108-20-3	250	1050	310	1320		
Isopropyl glycidyl ether [IGE]	C ₆ H ₁₀ O ₂	4016-14-2	50	240	75	360		
Kaolin, respirable particulate	Al ₂ Si ₂ O ₁₀ (OH) ₄	1332-58-7	-	2,5	-	-		
Ketene	CH ₂ =CO	463-51-4	0,5	0,9	1,5	3		

SUBSTANCE	FORMULA	CAS Numbers	OEL		OEL-STEL/ OEL-C		Notes
			ppm	mg/m ³	ppm	mg/m ³	
*Lead, elemental, and inorganic compounds [as Pb]	Pb	7439-92-1 (metal)	-	0,15	-	-	
*Lead tetra-ethyl [as Pb]	Pb(C ₂ H ₅) ₄	78-00-2	-	0,10	-	-	Sk
Lead tetra-methyl [as Pb]	Pb(CH ₃) ₄	75-74-1	-	0,15	-	-	Sk
Limestone	CaCO ₃	1317-65-3	see Calcium carbonate				
Lindane	C ₆ H ₆ Cl ₆	58-89-9	-	0,1	-	-	Sk
Liquified petroleum gas [LPG]	Mixture: C ₃ H ₈ ; C ₂ H ₆ ; C ₄ H ₁₀ ; C ₄ H ₆	68476-85-7	1000	1800	1250	2250	
Lithium hydride	LiH	7580-67-8	-	0,025	-	-	
Lithium hydroxide	LiOH	1310-65-2	-	-	-	1	
*MBOCA	CH ₂ (C ₆ H ₄ ClNH ₂) ₂	101-14-4	see *4,4'-Methylenebis(2-chloroaniline)				
*MDA	CH ₂ (C ₆ H ₄ NH ₂) ₂	101-77-9	see *4,4'-Methylene dianiline				
*MDI	CH ₂ (C ₆ H ₄ NCO) ₂	101-68-8	see *Isocyanates				
Magnesite	MgCO ₃	546-93-0	-	-	-	-	
inhalable particulate			-	10	-	-	
respirable particulate			-	5	-	-	
Magnesium oxide [as Mg]	MgO	1309-48-4	-	-	-	-	
inhalable particulate			-	10	-	-	
fume and respirable particulate			-	5	-	10	
Malathion	C ₁₀ H ₁₆ O ₆ P ₂ S ₂	121-75-5	-	10	-	-	Sk
Maleic anhydride	C ₄ H ₂ O ₃	108-31-6	0,25	1	-	-	
Manganese, elemental, and inorganic compounds [as Mn]	Mn	7439-96-5 (metal)	-	5	-	-	
Manganese, fume [as Mn]	Mn	7439-96-5	-	1	-	3	
Manganese cyclopentadienyl tricarbonyl [as Mn]	C ₅ H ₅ Mn(CO) ₃	12079-65-1	-	0,1	-	0,3	Sk
Manganese tetroxide	Mn ₂ O ₄	1317-35-7	-	1	-	-	
Man made mineral fibres [Glass, slag and rock wool fibres]			-	2 f/ml	-	-	
Marble	CaCO ₃	1317-65-3	see Calcium carbonate				
Mequinol [INN]	CH ₃ OC ₆ H ₄ OH	150-76-5	-	5	-	-	
Mercaptoacetic acid	HSCH ₂ COOH	68-11-1	see Thioglycolic acid				
Mercury alkyls [as Hg]			-	0,01	-	0,03	Sk
Mercury and compounds, except Mercury alkyls, [as Hg]	Hg	7439-97-6	-	0,025	-	-	
Mesityl oxide	(CH ₃) ₂ C=CHCOCH ₃	141-79-7	15	60	25	100	
Methacrylic acid	CH ₂ =C(CH ₃)COOH	79-41-4	20	70	40	140	
Methacrylonitrile	CH ₂ =C(CH ₃)CN	126-98-7	1	3	-	-	Sk
Methane	CH ₄	74-82-8	-	-	C 1,4 %	-	See Note [d]
Methanethiol	CH ₃ SH	74-93-1	see Methyl mercaptan				
Methanol	CH ₃ OH	67-56-1	200	260	250	310	Sk
Methomyl	C ₃ H ₇ N ₃ O ₂ S	16752-77-5	-	2,5	-	-	
Methoxychlor	(C ₂ H ₅ OCH ₂) ₂ CHCl	72-43-5	-	10	-	-	
*2-Methoxyethanol [EGME]	CH ₃ OCH ₂ CH ₂ OH	109-86-4	5	16	-	-	Sk
*2-Methoxyethyl acetate [EGMEA]	CH ₃ COOCH ₂ CH ₂ OCH ₃	110-49-6	5	24	-	-	Sk
1-Methoxypropan-2-ol	CH ₃ CHOHCH ₂ OCH ₃	107-98-2	see Propylene glycol monomethyl ether				
Methyl acetate	CH ₃ COOCH ₃	79-20-9	200	610	250	760	
Methyl acrylate	CH ₂ =CHCOOCH ₃	96-33-3	10	35	-	-	
Methylal	CH ₂ (OCH ₃) ₂	109-87-5	1000	3100	1250	3880	
Methyl alcohol	CH ₃ OH	67-56-1	see Methanol				
Methylamine	CH ₃ NH ₂	74-89-5	10	12	-	-	
Methyl <i>n</i> -amyl ketone	CH ₃ CO(CH ₂) ₄ CH ₃	110-43-0	50	240	100	480	Sk
<i>N</i> -Methylaniline	C ₆ H ₅ NHCH ₃	100-61-8	0,5	2	-	-	Sk
Methyl bromide	CH ₃ Br	74-83-9	5	20	15	60	Sk
3-Methylbutan-1-ol	(CH ₃) ₂ CHCH ₂ CH ₂ OH	123-51-3	see Isoamyl alcohol				
1-Methylbutyl acetate	CH ₃ COOCH ₂ (CH ₂) ₃ CH ₃	626-38-0	see <i>sec</i> -Amyl acetate				
Methyl <i>n</i> -butyl ketone	CH ₃ CO(CH ₂) ₃ CH ₃	591-78-6	5	20	-	-	Sk
Methyl chloride	CH ₃ Cl	74-87-3	50	105	100	210	
*Methyl chloroform	CH ₂ Cl ₂	71-55-6	350	1900	450	2450	
Methyl 2-cyanoacrylate	CH ₂ =C(CN)COOCH ₃	137-05-3	2	8	4	16	
Methylcyclohexane	CH ₂ (C ₆ H ₁₁)	108-87-2	400	1600	500	2000	
Methylcyclohexanol	CH ₂ (C ₆ H ₁₀ OH)	25639-42-3	50	235	75	350	
2-Methylcyclohexanone	CH ₂ (CHCO(CH ₃))CH ₂	583-60-8	50	230	75	345	Sk
Methylcyclopentadienyl, Manganese tricarbonyl [as Mn]	CH ₂ (C ₅ H ₅ Mn(CO) ₃)	12108-13-3	-	0,2	-	0,6	Sk
2-Methyl-4,6-dinitrophenol	CH ₃ C ₆ H ₃ (OH)(NO ₂) ₂	534-52-1	see Dinitro- <i>o</i> -cresol				
*4,4'-Methylenebis(2-chloroaniline) [MBOCA]	CH ₂ (C ₆ H ₄ ClNH ₂) ₂	101-14-4	-	0,005	-	-	Sk
*Methylene chloride	CH ₂ Cl ₂	75-09-2	100	350	250	780	
*4,4'-Methylenedianiline [MDA]	CH ₂ (C ₆ H ₄ NH ₂) ₂	101-77-9	0,01	0,08	-	-	

SUBSTANCE	FORMULA	CAS Numbers	OEL		OEL-STEL/ OEL-C		Notes	
			ppm	mg/m ³	ppm	mg/m ³		
*4,4'-Methylene-diphenyl diisocyanate [MDI]	CH ₂ (C ₆ H ₄ NCO) ₂	101-68-8	see *Isocyanates					
Methyl ethyl ketone [MEK]	CH ₃ COCH ₂ CH ₃	78-93-3	200	600	300	900	Sk	
Methyl ethyl ketone peroxides [MEKP]	C ₈ H ₁₆ O ₄ or C ₈ H ₁₄ O ₄	1338-23-4	-	-	C 0,2	C 1,5		
Methyl formate	HCOOCH ₃	107-31-3	100	250	150	375		
5-Methylheptan-3-one	C ₈ H ₁₆ O	541-85-5	see Ethyl amyl ketone					
5-Methylhexan-2-one	CH ₃ COCH ₂ CH ₂ CH(CH ₃) ₂	110-12-3	see Methyl isoamyl ketone					
Methyl iodide	CH ₃ I	74-88-4	5	28	10	56	Sk	
Methyl isoamyl ketone	CH ₃ COCH ₂ CH ₂ CH(CH ₃) ₂	110-12-3	50	240	75	360	Sk	
Methyl isobutyl carbinol	(CH ₃) ₂ CHCH ₂ CH(OH)CH ₃	108-11-2	25	100	40	160	Sk	
Methyl isobutyl ketone [MIBK]	CH ₃ COCH ₂ CH(CH ₃) ₂	108-10-1	50	205	75	300	Sk	
*Methyl isocyanate	CH ₃ NCO	624-83-9	see *Isocyanates					
Methyl mercaptan	CH ₃ SH	74-93-1	0,5	1	-	-		
Methyl methacrylate	CH ₂ =C(CH ₃)COOCH ₃	80-62-6	50	205	100	410		
Methyl parathion	C ₈ H ₁₁ NO ₃ PS	298-00-0	-	0,2	-	0,6	Sk	
2-Methylpentane-2,4-diol	(CH ₃) ₂ COHCH ₂ CHOHCH ₃	107-41-5	see Hexylene glycol					
4-Methylpentan-2-ol	(CH ₃) ₂ CHCH ₂ CH(OH)CH ₃	108-11-2	see Methyl isobutyl carbinol					
4-Methylpentan-2-one	CH ₃ COCH ₂ CH(CH ₃) ₂	108-10-1	see Methyl isobutyl ketone					
4-Methyl-3-penten-2-one	(CH ₃) ₂ C=CHCOCH ₃	141-79-7	see Mesityl oxide					
*4-Methyl-m-phenylene diisocyanate	CH ₃ C ₆ H ₃ (NCO) ₂	584-84-9	see *Isocyanates					
2-Methylpropan-1-ol	(CH ₃) ₂ CHCH ₂ OH	78-83-1	see Isobutyl alcohol					
2-Methylpropan-2-ol	(CH ₃) ₃ COH	75-65-0	see <i>tert</i> -Butyl alcohol					
Methyl propyl ketone	CH ₃ COCH ₂ CH ₂ CH ₃	107-87-9	200	700	250	875		
1-Methyl-2-pyrrolidone	CH ₃ N(CH ₂) ₂ CO	872-50-4	100	400	-	-		
Methyl silicate	(CH ₃ O) ₂ Si	681-84-5	1	6	5	30		
alpha-Methyl styrene	C ₆ H ₅ C(CH ₃)=CH ₂	98-83-9	50	240	100	480		
Methylstyrenes	CH ₃ C ₆ H ₄ CH=CH ₂	25013-15-4	see Vinyl toluenes, all isomers					
N-Methyl-N-2,4,6-tetranitroaniline	(NO ₂) ₃ C ₆ H ₃ N(NO ₂)CH ₃	479-45-8	see Tetryl					
Mevinphos	C ₈ H ₁₁ PO ₄	7786-34-7	0,01	0,1	0,03	0,3	Sk	
Mica		12001-26-2						
inhalable particulate			-	10	-	-		
respirable particulate			-	1	-	-		
Molybdenum compounds [as Mo]	Mo	7439-98-7 (metal)						
soluble compounds			-	5	-	10		
insoluble compounds			-	10	-	20		
Monochloroacetic acid	ClCH ₂ CO ₂ H	79-11-8	0,3	1	-	-	Sk	
Morpholine	C ₄ H ₉ NO	110-91-8	20	70	30	105	Sk	
Naled	C ₂ H ₅ BrCl ₂ O ₂ P	300-76-5	-	3	-	6		
Naphthalene	C ₁₀ H ₈	91-20-3	10	50	15	75		
1,5-Naphthalene diisocyanate	C ₁₀ H ₆ (NCO) ₂	3173-72-6	-	0,02	-	0,07	Sen	
*Nickel	Ni	7440-02-0 (metal)	-	0,5	-	-		
Nickel carbonyl [as Ni]	Ni(CO) ₄	13463-39-3	-	-	0,1	0,24		
Nickel, organic compounds [as Ni]	Ni	-	-	1	-	3		
*Nickel, inorganic compounds [as Ni]	Ni	-						
soluble compounds			-	0,1	-	-		
insoluble compounds			-	0,5	-	-		
Nicotine	C ₁₀ H ₁₄ N ₂	54-11-5	-	0,5	-	1,5	Sk	
Nitrapyrin	ClC ₆ H ₄ NCCl ₃	1929-82-4	-	10	-	20		
Nitric acid	HNO ₃	7697-37-2	2	5	4	10		
Nitric oxide	NO	10102-43-9	25	30	35	45		
4-Nitroaniline	NO ₂ C ₆ H ₄ NH ₂	100-01-6	-	6	-	-	Sk	
Nitrobenzene	C ₆ H ₅ NO ₂	98-95-3	1	5	2	10	Sk	
Nitroethane	C ₂ H ₅ NO ₂	79-24-3	100	310	-	-		
Nitrogen dioxide	NO ₂	10102-44-0	3	5	5	9		
Nitrogen monoxide	NO	10102-43-9	see Nitric oxide					
Nitrogen trifluoride	NF ₃	7783-54-2	10	30	15	45		
Nitroglycerine [NG]	CH ₂ NO ₂ CHNO ₂ CH ₂ NO ₂	55-63-0	0,2	2	0,2	2	Sk	
Nitromethane	CH ₃ NO ₂	75-52-5	100	250	150	375		
1-Nitropropane	C ₃ H ₇ NO ₂	108-03-2	25	90	-	-		
*2-Nitropropane	(CH ₃) ₂ CH(NO ₂)	79-46-9	5	18	-	-		
Nitrotoluene, all isomers	CH ₃ C ₆ H ₄ NO ₂	-	5	30	10	60	Sk	
Nitrous oxide	N ₂ O	10024-97-2	100	180	-	-		
Octachloronaphthalene	C ₁₀ Cl ₈	2234-13-1	-	0,1	-	0,3	Sk	
n-Octane	CH ₃ (CH ₂) ₆ CH ₃	111-65-9	300	1450	375	1800		
Oil mist, mineral			-	5	-	10		
Orthophosphoric acid	H ₃ PO ₄	7664-38-2	see Phosphoric acid					
Osmium tetroxide [as Os]	OsO ₄	20816-12-0	0.0002	0,002	0,0006	0,006		

SUBSTANCE	FORMULA	CAS Numbers	OEL		OEL-STEL/ OEL-C		Notes	
			ppm	mg/m ³	ppm	mg/m ³		
Oxalic acid	COOHCOOH.2H ₂ O	144-62-7	-	1	-	2		
Oxalonitrile	(CN) ₂	460-19-5	see Cyanogen					
Oxygen	O ₂	7782-44-7	Not less than 19%					
2,2'-Oxydiethanol	(CH ₂ CH ₂ OH) ₂ O	111-46-6	see Diethylene glycol					
Ozone	O ₃	10028-15-6	-	-	0,2	0,4		
Paraffin wax, fume		8002-74-2	-	2	-	6		
Paraquat dichloride respirable particulate	CH ₃ (C ₆ H ₄ N) ₂ CH ₃ .2Cl	1910-42-5	-	0,1	-	-		
Parathion	(C ₂ H ₅ O) ₂ PSOC ₂ H ₄ NO ₂	56-38-2	-	0,1	-	0,3	Sk	
Parathion-methyl	C ₆ H ₁₀ NO ₃ PS	298-00-0	see Methyl parathion					
Particles not otherwise classified [PNOC]: <5% crystalline quartz/ silica								
inhalable particulate			-	10	-	-		
respirable particulate			-	5	-	-		
PCBs			see Chlordiphenyls					
Pentacarbonyliron [as Fe]	Fe(CO) ₅	13463-40-6	see Iron pentacarbonyl					
Pentachlorophenol	C ₆ Cl ₅ OH	87-86-5	-	0,5	-	1,5	Sk	
Pentaerythritol	C(CH ₂ OH) ₄	115-77-5						
inhalable particulate			-	10	-	20		
respirable particulate			-	5	-	-		
Pentane, all isomers	C ₅ H ₁₂	-	600	1800	750	2250		
Pentan-2-one	CH ₃ COCH ₂ CH ₂ CH ₃	107-87-9	see Methyl propyl ketone					
Pentan-3-one	CH ₃ CH ₂ COCH ₂ CH ₃	96-22-0	see Diethyl ketone					
Pentyl acetate	CH ₃ COO(CH ₂) ₄ CH ₃	628-63-7	see n-Amyl acetate					
Perchloroethylene	C ₂ Cl ₄	127-18-4	50	335	150	1000		
Perchloryl fluoride	ClO ₂ F	7616-94-6	3	14	6	28		
Phenacyl chloride	C ₆ H ₅ COCH ₂ Cl	532-27-4	see 2-Chloroacetophenone					
Phenol	C ₆ H ₅ OH	108-95-2	5	19	10	38	Sk	
p-Phenylenediamine	C ₆ H ₄ (NH ₂) ₂	106-50-3	-	0,1	-	-		
Phenyl-2,3-epoxypropyl ether	C ₆ H ₅ OCH ₂ CHCH ₂	122-60-1	1	6	-	-		
Phenyl ether, vapour	C ₆ H ₅ OC ₂ H ₅	101-84-8	1	7	-	-		
*Phenylethylene	C ₆ H ₅ CH=CH ₂	100-42-5	see *Styrene					
Phenylhydrazine	C ₆ H ₅ NHNH ₂	100-63-0	5	20	10	45	Sk	
2-Phenylpropene	C ₆ H ₅ C(CH ₃)=CH ₂	98-83-9	see alpha-Methyl styrene					
Phorate	C ₂ H ₅ O ₂ PS ₂	298-02-2	-	0,05	-	0,2	Sk	
Phosdrin	C ₂ H ₅ PO ₃	7786-34-7	see Mevinphos					
Phosgene	COCl ₂	75-44-5	0,02	0,08	0,06	0,25		
Phosphine	PH ₃	7803-51-2	-	-	0,3	0,4		
Phosphoric acid	H ₃ PO ₄	7664-38-2	-	1	-	3		
Phosphorus, yellow	P ₄	7723-14-0	-	0,1	-	0,3		
Phosphorus pentachloride	PCl ₅	10026-13-8	0,1	1	-	-		
Phosphorus pentasulphide	P ₂ S ₅ / P ₄ S ₁₀	1314-80-3	-	1	-	3		
Phosphorus trichloride	PCl ₃	7719-12-2	0,2	1,5	0,5	3		
Phosphoryl trichloride	POCl ₃	10025-87-3	0,2	1,2	0,6	3,6		
Phthalic anhydride	C ₈ H ₄ (CO) ₂ O	85-44-9	1	6	4	24	Sen	
Picloram	C ₆ H ₃ Cl ₃ N ₂ O ₂	1918-02-1	-	10	-	20		
Picric acid	(NO ₂) ₃ C ₆ H ₂ OH	88-89-1	-	0,1	-	0,3		
Piperazine dihydrochloride	C ₄ H ₁₀ N ₂ .2HCl	142-64-3	-	5	-	-		
Piperidine	C ₅ H ₁₁ N	110-89-4	1	3,5	-	-	Sk	

SUBSTANCE	FORMULA	CAS Numbers	OEL		OEL-STEL/ OEL-C		Notes
			ppm	mg/m ³	ppm	mg/m ³	
Plaster of Paris inhalable particulate respirable particulate	(CaSO ₄) ₂ H ₂ O	26499-65-0	-	10	-	-	
			-	5	-	-	
Platinum metal	Pt	7440-06-4	-	5	-	-	
Platinum mine dust respirable particulate <5% crystalline quartz/silica >5% crystalline quartz/silica	-	-	-	3,0	-	-	
			see Silica - Crystalline (Quartz)				
Platinum salts, soluble [as Pt]	-	-	-	0,002	-	-	Sen
Polychlorinated biphenyls [PCBs]	-	-	see Chlorodiphenyls				
Polyvinyl chloride [PVC] inhalable particulate respirable particulate	-	9002-86-2	-	10	-	-	
			-	5	-	-	
Portland cement inhalable particulate respirable particulate	-	65997-15-1	-	10	-	-	
			-	5	-	-	
Potassium cyanide	KCN	151-50-8	see Hydrogen cyanide and cyanide salts				
Potassium hydroxide	KOH	1310-58-3	-	-	-	2	
Propane-1,2-diol	CH ₃ CHOHCHOH	57-55-6	see Propylene glycol				
n-Propanol	CH ₃ CH ₂ CH ₂ OH	71-23-8	200	500	250	625	Sk
Propan-1-ol	CH ₃ CH ₂ CH ₂ OH	71-23-8	see n-Propanol				
Propan-2-ol	(CH ₃) ₂ CHOH	67-63-0	see Isopropyl alcohol				
Propane	CH ₃ CH ₂ CH ₃	74-98-6	1000	1800	-	-	
Propargyl alcohol	HC≡CCH ₂ OH	107-19-7	1	2	3	6	Sk
Propionic acid	CH ₃ CH ₂ COOH	79-09-4	10	30	15	45	
Propoxur	C ₁₁ H ₁₃ NO ₂	114-26-1	-	0,5	-	2	
Propranolol	C ₁₆ H ₂₁ NO ₂	525-66-6	-	2	-	6	
n-Propyl acetate	CH ₃ COOCH ₂ CH ₂ CH ₃	109-60-4	200	840	250	1050	
Propylene dinitrate	CH ₂ CNO ₂ OHCHNO ₂ OH	6423-43-4	see Propylene glycol dinitrate				
Propylene glycol total (particulate & vapour) particulate	CH ₃ CHOHCHOH	57-55-6	150	470	-	-	
			-	10	-	-	
Propylene glycol dinitrate [PGDN]	CH ₂ CNO ₂ OHCHNO ₂ OH	6423-43-4	0,2	1,2	0,2	1,2	Sk
Propylene glycol monomethyl ether	CH ₃ CHOHCH ₂ OCH ₃	107-98-2	100	360	300	1080	Sk
2-Propyn-1-ol	HC≡CCH ₂ OH	107-19-7	see Propargyl alcohol				
Pulverised fuel ash inhalable particulate respirable particulate	-	-	-	10	-	-	
			-	5	-	-	
Pyrethrins	-	8003-34-7	-	5	-	10	
Pyridine	C ₅ H ₅ N	110-86-1	5	15	10	30	
2-Pyridylamine	NH ₂ C ₅ H ₄ N	502-29-0	0,5	2	2	8	
Pyrocatechol	C ₆ H ₄ (OH) ₂	120-80-9	see Catechol				
Quartz, crystalline	SiO ₂	14808-60-7	see Silica - Crystalline				
Quinone	C ₆ H ₄ O ₂	106-51-4	0,1	0,4	0,3	1,2	
RDX	C ₃ H ₆ N ₆ O ₆	121-82-4	see Cyclonite				
Resorcinol	C ₆ H ₄ (OH) ₂	108-46-3	10	45	20	90	
Rhodium [as Rh] metal fume & dust soluble salts	Rh	7440-16-6 (metal)	-	0,1	-	0,3	
			-	0,001	-	0,003	
Ronnel	(CH ₃ O) ₂ P(S)OC ₂ H ₅ Cl ₂	299-84-3	-	10	-	-	
Rosin core solder pyrolysis products [as formaldehyde]	-	-	-	0,1	-	0,3	Sen
Rotenone	C ₂₃ H ₂₂ O ₆	83-79-4	-	5	-	10	
Rouge inhalable particulate respirable particulate	Fe ₂ O ₃	1309-37-1	-	10	-	-	
			-	5	-	-	
*Rubber fume	-	-	-	0,6	-	-	
*Rubber process dust	-	-	-	6	-	-	
Selenium & compounds, except hydrogen selenide [as Se]	Se	7782-49-2	-	0,1	-	-	
Silane	SiH ₄	7803-62-5	see Silicon tetrahydride				
Silica, amorphous inhalable particulate respirable particulate	SiO ₂	7631-86-9	-	6	-	-	
			-	3	-	-	

SUBSTANCE	FORMULA	CAS Numbers	OEL		OEL-STEL/OEL-C		Notes
			ppm	mg/m ³	ppm	mg/m ³	
* Silica, crystalline [respirable particulate]	SiO ₂	14808-60-7					
Cristobalite		14464-46-1	-	0,1	-	-	
Quartz		14808-60-7	-	0,1	-	-	
Tridymite		15468-32-3	-	0,1	-	-	
Tripoli		1317-95-9	-	0,1	-	-	
Silica fume [respirable particulate]	SiO ₂	69012-64-2	-	2	-	-	
Silica, fused [respirable particulate]	SiO ₂	60676-86-0	-	0,1	-	-	
Silicon	Si	7440-21-3					
inhalable particulate			-	10	-	-	
respirable particulate			-	5	-	-	
Silicon carbide	SiC	409-21-2					
inhalable particulate			-	10	-	-	
respirable particulate			-	5	-	-	
Silicon tetrahydride	SiH ₄	7803-62-5	0,5	0,7	1	1,5	
Silver	Ag	7440-22-4 (metal)	-	0,1	-	-	
Silver compounds [as Ag]			-	0,01	-	-	
Sodium azide	NaN ₃	26628-22-8	-	-	-	0,3	
Sodium cyanide	NaCN	143-33-9	see Hydrogen cyanide and cyanide salts				
Sodium 2,4-dichlorophenoxy ethyl sulphate	C ₈ H ₇ Cl ₂ NaO ₂ S	136-78-7	-	10	-	20	
Sodium fluoroacetate	CH ₂ FCOONa	62-74-8	-	0,05	-	0,15	Sk
Sodium hydrogen sulphite	NaHSO ₃	7631-90-5	-	5	-	-	
Sodium hydroxide	NaOH	1310-73-2	-	-	-	2	
Sodium metabisulphate	Na ₂ S ₂ O ₅	7681-57-4	-	5	-	-	
Starch	(C ₆ H ₁₀ O ₅) _n	9005-25-8					
inhalable particulate			-	10	-	-	
respirable particulate			-	5	-	-	
Stibine	SbH ₃	7803-52-3	0,1	0,5	0,3	1,5	
Strychnine	C ₂₁ H ₂₂ N ₂ O ₂	57-24-9	-	0,15	-	0,45	
*Styrene	C ₈ H ₇ CH=CH ₂	100-42-5	100	420	250	1050	
Subtilisins [Proteolytic enzymes as 100% pure crystalline enzyme]		1395-21-7 9014-01-1	-	0.00006	-	0,00006	
Sucrose	C ₁₂ H ₂₂ O ₁₁	57-50-1	-	10	-	20	
Sulfotep	[(CH ₂ CH ₂ O) ₂ PS] ₂ O	3689-24-5	-	0,2	-	-	Sk
Sulphur dioxide	SO ₂	7446-09-5	2	5	5	13	
Sulphur hexafluoride	SF ₆	2551-62-4	1000	6000	1250	7500	
Sulphuric acid	H ₂ SO ₄	7664-93-9	-	1	-	3	
Sulphur monochloride	S ₂ Cl ₂	10025-67-9	-	-	1	6	
Sulphur pentafluoride	SF ₅	5714-22-7	0,025	0,25	0,075	0,75	
Sulphur tetrafluoride	SF ₄	7783-60-0	0,1	0,4	0,3	1	
Sulphuryl difluoride	SO ₂ F ₂	2699-79-8	5	20	10	40	
2,4,5-T	Cl ₃ C ₆ H ₃ OCH ₂ COOH	93-76-5	see 2,4,5-Trichlorophenoxyacetic acid				
*TDI	CH ₃ C ₆ H ₄ (NCO) ₂	584-84-9	see *Isocyanates				
TEDP	[(CH ₂ CH ₂ O) ₂ PS] ₂ O	3689-24-5	see Sulfotep				
TEPP	[(CH ₂ CH ₂ O) ₂ PO] ₂ O	107-49-3	0,004	0,05	0,01	0,2	Sk
TNT	CH ₃ C ₆ H ₂ (NO ₂) ₃	118-96-7	see 2,4,6-Trinitrotoluene				
Talc	Mg ₃ Si ₄ O ₁₀ (OH) ₂	14807-96-6					
inhalable particulate			-	10	-	-	
respirable particulate			-	1	-	-	
Tantalum metal and oxide dusts [as Ta]	Ta	7440-25-7 1314-61-0	-	5	-	10	
Tellurium & compounds, except hydrogen telluride [as Te]	Te	13494-80-9	-	0,1	-	-	
Terphenyls, all isomers	C ₁₈ H ₁₄	26140-60-3	-	-	0,5	5	
1,1,2,2-Tetrabromoethane	CHBr ₂ CHBr ₂	79-27-6	0,5	7	-	-	Sk
Tetrabromomethane	CBr ₄	558-13-4	see Carbon tetrabromide				
Tetracarbonyl nickel	Ni(CO) ₄	13463-19-3	see Nickel carbonyl				
1,1,1,2-Tetrachloro-1,2-difluoroethane	CCl ₃ CFClF	76-12-0	100	834	100	834	
1,1,1,2-Tetrachloro-2,2-difluoroethane	CCl ₃ CClF ₂	76-11-9	100	834	100	834	
Tetrachloroethylene	Cl ₂ C=CCl ₂	127-18-4	see Perchloroethylene				
Tetrachloromethane	CCl ₄	56-23-5	see Carbon tetrachloride				
Tetrachloronaphthalenes, all isomers	C ₁₀ H ₆ Cl ₄	1335-88-2	-	2	-	4	
Tetraethyl dithiopyrophosphate	[(CH ₂ CH ₂ O) ₂ PS] ₂ O	3689-24-5	see Sulfotep				
Tetraethyl orthosilicate	Si(OC ₂ H ₅) ₄	78-10-4	see Ethyl silicate				
Tetraethyl pyrophosphate	[(CH ₂ CH ₂ O) ₂ PO] ₂ O	107-49-3	see TEPP				

SUBSTANCE	FORMULA	CAS Numbers	OEL		OEL-STEL/ OEL-C		Notes
			ppm	mg/m ³	ppm	mg/m ³	
Tetrafluorodichloroethane	CCl ₂ CClF ₂	76-14-2	see 1,2-Dichlorotetrafluoroethane				
1,1,1,2-Tetrafluoroethane [HFC 134a]	CF ₃ CH ₂ F	811-97-2	1000	4200	-	-	
Tetrahydrofuran	C ₄ H ₈ O	109-99-9	100	295	200	590	Sk
Tetramethyl orthosilicate	(CH ₃ O) ₄ Si	681-84-5	see Methyl silicate				
Tetramethyl succinonitrile	C ₈ H ₁₂ N ₂	3333-52-6	0,5	3	2	9	Sk
Tetrasodium pyrophosphate	Na ₄ P ₂ O ₇	7722-88-5	-	5	-	-	
Tetryl	(NO ₂) ₃ C ₆ H ₂ N(NO ₂)CH ₃	479-45-8	-	1,5	-	3	
Thallium, soluble compounds [as Tl]	Tl	-	-	0,1	-	-	Sk
4,4'-Thiobis(6-tert-butyl-m-cresol)	(CH ₃ (OH)C ₆ H ₂ C(CH ₃) ₃) ₂ S	96-69-5	-	10	-	20	
Thioglycolic acid	HSCH ₂ COOH	68-11-1	1	5	-	-	
Thionyl chloride	SOCl ₂	7719-09-7	-	-	1	5	
Thiram	(CH ₃) ₂ NCS ₂ CS ₂ N(CH ₃) ₂	137-26-8	-	5	-	10	
Tin compounds, inorganic except SnH ₄ [as Sn]	-	-	-	2	-	4	
Tin compounds, organic except cyhexatin [as Sn]	-	-	-	0,1	-	0,2	Sk
Titanium dioxide inhalable particulate respirable particulate	TiO ₂	13463-67-7	-	10	-	-	
Toluene	C ₇ H ₈	108-88-3	50	188	150	560	Sk
*2,4-Toluene diisocyanate [TDI]	CH ₃ C ₆ H ₃ (NCO) ₂	584-84-9	see *Isocyanates				
p-Toluenesulphonyl chloride	CH ₃ C ₆ H ₄ SO ₂ Cl	98-59-9	-	-	-	5	
Tribromomethane	CHBr ₃	75-25-2	see Bromoform				
Tributyl phosphate, all isomers	(C ₄ H ₉) ₃ PO ₄	126-73-8	-	5	-	5	
Tricarbonyl(eta-cyclopentadienyl)manganese	(C ₅ H ₅)Mn(CO) ₃	12079-65-1	see Manganese cyclopentadienyl tricarbonyl				
Tricarbonyl(methylcyclopentadienyl)manganese	CH ₃ C ₅ H ₄ Mn(CO) ₃	12108-13-3	see Methylcyclopentadienyl manganese tricarbonyl				
Trichloroacetic acid	CCl ₃ COOH	76-03-9	1	5	-	-	
1,2,4-Trichlorobenzene	C ₆ H ₃ Cl ₃	120-82-1	5	40	5	40	
1,1,1-Trichlorobis-2,2-bis(p-chlorophenyl)ethane	(C ₆ H ₄ Cl) ₂ CHCCl ₃	50-29-3	see DDT				
*1,1,1-Trichloroethane	CH ₃ CCl ₃	71-55-6	see *Methyl chloroform				
1,1,2-Trichloroethane	CHCl ₂ CH ₂ Cl	79-00-5	10	45	20	90	Sk
*Trichloroethylene	CCl ₂ =CHCl	79-01-6	100	535	150	802	Sk
Trichlorofluoromethane	CCl ₂ F	75-69-4	1000	5600	1250	7000	
Trichloromethane	CHCl ₃	67-66-3	see Chloroform				
Trichloronitromethane	CCl ₃ NO ₂	76-06-2	see Chloropicrin				
2,4,5-Trichlorophenoxyacetic acid	Cl ₃ C ₆ H ₂ OCH ₂ COOH	93-76-5	-	10	-	20	
1,2,3-Trichloropropane	CH ₂ ClCHClCH ₂ Cl	96-18-4	50	300	75	450	
1,1,2-Trichlorotrifluoroethane	CCl ₂ CFClF ₂	76-13-1	1000	7600	1250	9500	
Tri-o-cresyl phosphate	(CH ₃ C ₆ H ₄ O) ₃ P=O	78-30-8	-	0,1	-	0,3	
Tricyclohexyltin hydroxide	(C ₆ H ₁₁) ₃ SnOH	13121-70-5	see Cyhexatin				
Tridymite	SiO ₂	14808-60-7	see Silica - Crystalline				
Triethylamine	(C ₂ H ₅) ₃ N	121-44-8	10	40	15	60	
Trifluorobromomethane	CF ₂ Br	75-63-8	1000	6100	1200	7300	
Trimanganese tetroxide	Mn ₃ O ₄	1317-35-7	see Manganese tetroxide				
Trimellitic anhydride	C ₈ H ₄ O ₃	552-30-7	-	0,04	-	-	Sen
Trimethylamine	(CH ₃) ₃ N	75-50-3	10	24	15	36	
Trimethylbenzene, all isomers or mixtures	C ₆ H ₅ (CH ₃) ₃	25551-13-7	25	123	-	-	
3,5,5-Trimethylcyclohex-2-enone	C ₉ H ₁₆ O	78-59-1	see Isophorone				
Trimethyl phosphite	(CH ₃ O) ₃ P	121-45-9	2	10	-	-	
2,4,6-Trinitrophenol	(NO ₂) ₃ C ₆ H ₂ OH	88-89-1	see Picric acid				
2,4,6-Trinitrotoluene	CH ₃ C ₆ H ₂ (NO ₂) ₃	118-96-7	-	0,5	-	-	Sk
Triphenyl phosphate	(C ₆ H ₅ O) ₃ PO ₄	115-86-6	-	3	-	6	
Tripoli	SiO ₂	14808-60-7	see Silica - Crystalline				
Tri-o-tolyl phosphate	(CH ₃ C ₆ H ₄ O) ₃ P=O	78-30-8	see Tri-o-cresyl phosphate				
Tungsten & compounds [as W] soluble insoluble	-	7440-33-7 (metal)	-	1	-	3	
Turpentine	C ₁₀ H ₁₆ (approx)	8006-64-2	100	560	150	840	
Uranium compounds, natural soluble [as U]	-	7440-61-1 (metal)	-	0,2	-	0,6	

SUBSTANCE	FORMULA	CAS Numbers	OEL		OEL-STEL/OEL-C		Notes	
			ppm	mg/m ³	ppm	mg/m ³		
Vanadium pentoxide inhalable particulate fume & respirable particulate	V ₂ O ₅	1314-62-1	-	0,5	-	-		
			-	0,05	-	-		
Vinyl acetate	CH ₂ =CHOOCCH ₃	108-05-4	10	30	20	60		
*Vinyl benzene	C ₆ H ₅ CH=CH ₂	100-42-5	see *Styrene					
Vinyl bromide	CH ₂ =CHBr	593-60-2	5	20	-	-		
*Vinyl chloride	H ₂ C=CHCl	75-01-4	7	-	-	-	See Note [f]	
4-Vinyl cyclohexene dioxide	C ₈ H ₁₂ O ₂	106-87-6	10	60	-	-		
*Vinylidene chloride	CH ₂ =CCl ₂	75-35-4	10	40	-	-		
Vinyl toluenes, all isomers	CH ₂ =CHC ₆ H ₄ CH ₃	25013-15-4	50	240	100	480		
Warfarin	C ₁₉ H ₁₆ O ₄	81-81-2	-	0,1	-	0,3		
Welding fumes	-	-	-	5	-	-	See Note [g]	
White spirit [Stoddard Solvent]	-	8052-41-3	100	575	125	720		
Wood dust								
*Hard wood			-	5	-	-	Sen	
Soft wood			-	5	-	10		
Xylene, <i>o</i> -, <i>m</i> -, <i>p</i> - or mixed isomers	C ₈ H ₁₀ (CH ₃) ₂	1330-20-7	100	435	150	650	Sk	
Xylidine, all isomers	(CH ₃) ₂ C ₆ H ₄ NH ₂	1300-73-8	2	10	10	50	Sk	
Yttrium	Y	7440-65-5	-	1	-	3		
Zinc chloride, fume	ZnCl ₂	7646-85-7	-	1	-	2		
Zinc distearate	Zn(C ₁₈ H ₃₅ O ₂) ₂	557-05-1	see Zinc stearate					
Zinc oxide, fume	ZnO	1314-13-2	-	5	-	10		
Zinc stearate	Zn(C ₁₈ H ₃₅ O ₂) ₂	557-05-1						
inhalable particulate			-	10	-	20		
respirable particulate			-	5	-	-		
Zirconium compounds [as Zr]	Zr	7440-67-7	-	5	-	10		

NOTES

- [a] The concentration of "respirable particulate" shall be determined from the fraction passing a size selector with an efficiency that will allow:
- [i] 100% particles of 0 μm aerodynamic diameter
 - [ii] 50% particles of 4 μm aerodynamic diameter
 - [iii] 30% particles of 5 μm aerodynamic diameter
 - [iv] 1% particles of 10 μm aerodynamic diameter
- [b] Exposure to a substance with an OEL demarcated with an asterisk must be kept as far below the OEL as is reasonably practicable.
- [c] The OEL for Aluminium does not include exposure to aluminium coated with mineral oil, or to fume arising from aluminium welding processes.
- [d] Simple asphyxiant. See also Note [e] for Flammable gas.
- [e] Explosion hazard
- [f] Vinyl chloride is also subject to an overriding annual TWA OEL-CL of 3 ppm.
- [g] The OEL for welding fume is without prejudice to any occupational exposure limits for individual components in the fume. Some welding processes generate fume that contains components, which have specific OELs, these limits should be applied to control exposure if these substances are present in the fume.
- [h] For practical reasons in monitoring OEL-STEL may be used as OEL C for use underground.
- [i] A limited number of OELs are based on static air sampling rather than personal sampling. These include the 8 hour OEL for cotton dust and the annual average OEL for vinyl chloride.

22.9(2)(b) OCCUPATIONAL EXPOSURE LIMITS FOR PHYSICAL AGENTS**(i) NOISE**

- (1) Noise Exposure : 85 dBL_{Aeq,8h}
- (2) Peak Sound Level : 135 dB(A)

(ii) THERMAL STRESSES

- (1) Wet Bulb (°C) : 32.5
- (2) Dry Bulb (°C) : 37
- (3) Mean Radiant Temperature (°C) : 37
- (4) Equivalent Chill Temperature (°C) : 4

22.9(2)(C) POTABLE WATER**(i) QUALITY**

POTABLE WATER QUALITY	PHYSICAL REQUIREMENTS	CHEMICAL REQUIREMENTS	CONDUCTIVITY REQUIREMENTS
Allowable Limit	Odour } And } Not to be Taste } objectionable	pH 5.5 min 9.5 max	
Recommended Limit	Turbidity 1 (NTU) Colour 20 mg/l of Platinum	pH 6.0 min 9.0 max	70 ms/m
Maximum Allowable Limit	Turbidity 5 (NTU) Colour not specified		
Maximum Limit			300 ms/m

(NTU) = Expressed in Nephelometric turbidity units

(ii) Macro, Micro Determinants and Bacteriological Limits

DETERMINANTS	Formula	MAXIMUM ALLOWABLE LIMIT
Macro Determinants		
Total hardness	CaCO ₃	650
Magnesium	Mg	100
Sodium	Na	400
Chloride	Cl	600
Sulphate	SO ₄	600
Nitrate + nitrite	N	10
Fluoride	F	1.5
Zinc	Zn	5.0
Micro Determinants		
Arsenic	As	300
Cadmium	Cd	20
Copper	Cu	1000
Cyanide	CN	300
Iron	Fe	1000
Lead	Pb	100
Manganese	Mn	1000
Mercury	Hg	10
Phenolic Compounds	Phenol	10
Selenium	Se	50
Bacteriological Limits		
Total coliform bacteria count		5 per 100 ml
Faecal coliform bacteria count		NIL per 100 ml
Standard plate count		Not specified

(iii) Other Constituents

The water shall not contain any other constituents in concentrations, which may render it unsuitable for use as drinking water.

CHAPTER 22**SCHEDULES**

22.15(5)(a) The competent person referred to in regulations 5.1(1) must be in possession of the following –

(i) Where the competent person performs the obligations underground:

(1) Certificate in Mine Environmental Control, issued by the Chamber of Mines of South Africa.

(ii) Where the competent person performs the obligations on surface:

(1) Intermediate Certificate in Mine Environmental Control, issued by the Chamber of Mines of South Africa, and be certified as an Occupational Hygienist by the Southern African Institute for Occupational Hygiene;

OR

(2) Certificate in Mine Environmental Control, issued by the Chamber of Mines of South Africa.

22.15(9)(a) The competent person referred to in regulations 9.2(3) must be in possession of the following –

(i) *Where the competent person performs the obligations underground:*

- (1) Certificate in Mine Environmental Control, issued by the Chamber of Mines of South Africa.

(ii) *Where the competent person performs the obligations on surface:*

- (1) Intermediate Certificate in Mine Environmental Control, issued by the Chamber of Mines of South Africa, and be certified as an Occupational Hygienist by the Southern African Institute for Occupational Hygiene;
- (2) Certificate in Mine Environmental Control, issued by the Chamber of Mines of South Africa.

22.15(16)(a) The competent person referred to in regulations 16.1(1) must be in possession of the following –

(i) Where the competent person performs the obligations underground:

- (1) Certificate in Mine Environmental Control, issued by the Chamber of Mines of South Africa.

(ii) Where the competent person performs the obligations on surface:

- (1) Intermediate Certificate in Mine Environmental Control, issued by the Chamber of Mines of South Africa, and be certified as an Occupational Hygienist by the Southern African Institute for Occupational Hygiene;
- (2) Certificate in Mine Environmental Control, issued by the Chamber of Mines of South Africa.

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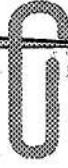
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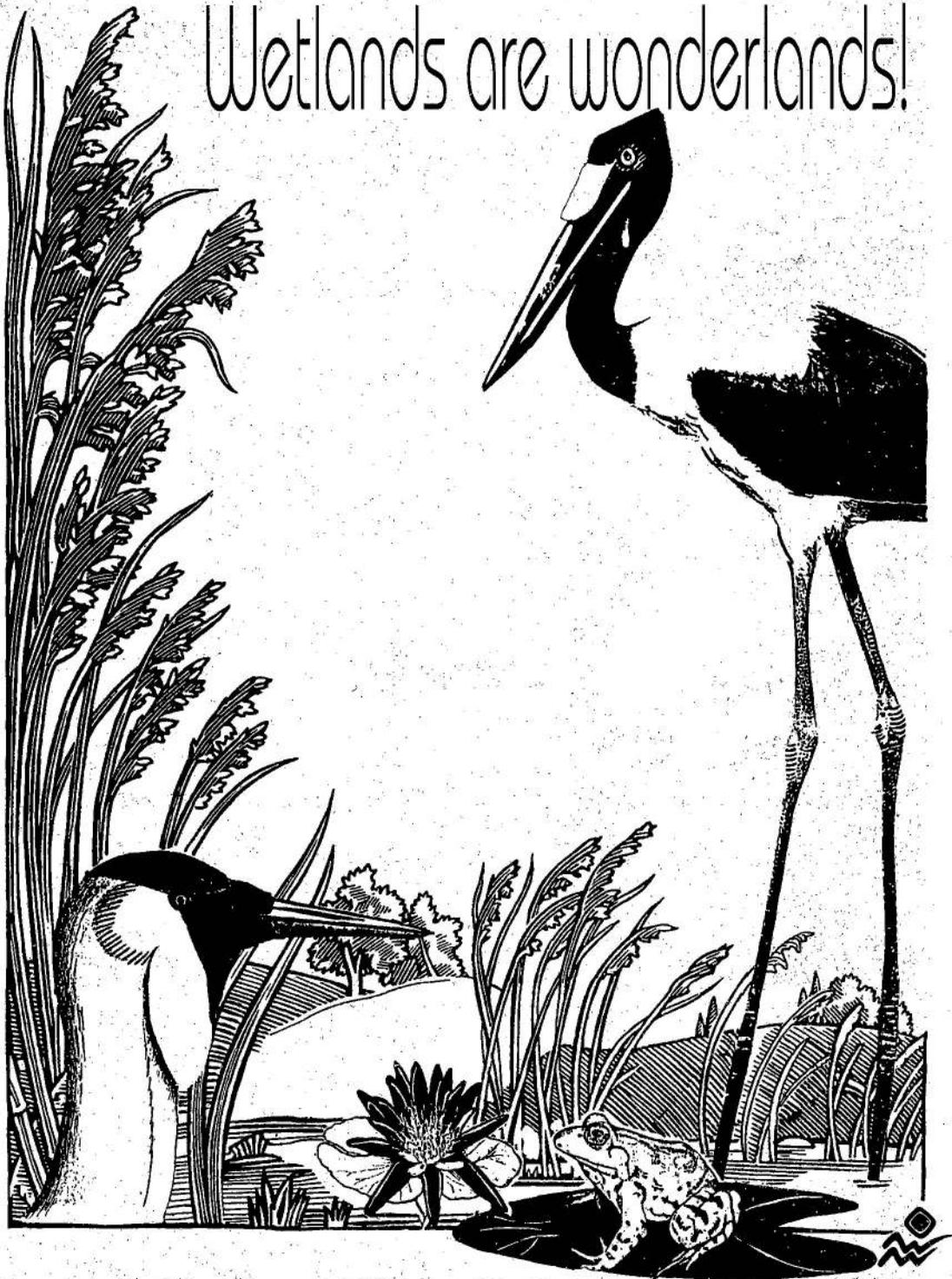
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