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AIDS HELPLINE: 0800-123-22 Prevention is the cure

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 $\geq {}^{1}/_{10}$ of the occupational exposure limit;
	-	gases and vapours $\geq$ ½ of the occupational exposure limit;
(b) thermal stress	-	heat >25,0°C wet bulb and/or >32,0°C dry bulb and/or >32,0°C mean radiant temperature;
	-	cold <10°C equivalent chill temperature; and
(c) noise	-	$\geq 82 dBL_{Aeq,8h}$.

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 hazard*s 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 *employee*s 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 *employee*s who perform work involving *hazard*ous *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 *employee*s who perform work involving *hazard*ous *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	Concentration	Average Of HEG	90 th percentile of HEG	Analysis	Dose allocated to medical record	OEL	Pollutant Index	AQI
Occupations in HEG Codes	No of persons per Occupation	Code	Per Occupation mg/m³ ppm f/ml (A)	(B)		% (C)	mg/m³ ppm f/ml (D=BxC%)	mg/m³ ppm f/ml (E)	(F=D/E)	(G=SUM F)

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
5. 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:	
Measurement Area:	
Activity Area Code:	
Thermal Classification:	

DME Mine Code

Quarter Ending

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				

Annual Cold Stress Exposure Report Form Report Form 21.9(2)(c)

In terms of regulation 9.2. (7)

General:

1. Risk assessment will determine the coldest quarter (Generally for Cold Stress: Quarter – June to August)
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
5. 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:	
Measurement Area:	
Activity Area Code:	
Thermal Classification:	

DME Mine Code

Quarter Ending

Thermal Environment		Parameter		Measurements (n)	Mean	Range
Total number of people in Thermal Env	Occupations in Thermal Environment					
		Dry bulb (DB) °C				
		Equivalent chill temperature °C				
		Air velocity m/s				

Annual Personal Noise Exposure Report - Report Form 21.9(2)(d)

In terms of regulation 9.2. (7)

General:

1. Complete one form for each homogeneous exposure group
2. General: 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

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

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

DME Mine Code:

HEG			
Occupations in HEG Codes	No of persons per occupation	Sound Pressure Level ($L_{Aeq, 8h}$) Per occupation	Peak Noise Level [dB(A)] Per occupation

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 óther 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/m^3	=	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/m³	ppm	mg/m³	
Acetaldehyde	CH_3CHO	75-07-0	100	180	150	270	
Acetic acid	CH_3COOH	64-19-7	10	25	15	37	
Acetic anhydride	$(CH_3CO)_2O$	108-24-7	-	-	5	20	
Acetone	$(CH_3)_2CO$	67-64-1	750	1780	1500	3560	
Acetonitrile	CH_3CN	75-05-8	40	70	60	105	
Acetylsalicylic acid [Asprin]	$CH_3COOC_6H_4COOH$	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	$C_{12}H_8Cl_6$	309-00-2	-	0,25	-	0,75	Sk
Allyl alcohol	$CH_2=CHCH_2OH$	107-18-6	2	5	4	10	Sk
Allyl chloride	$CH_2=CHCH_2Cl$	107-05-1	1	3	2	6	
Allyl-2,3-epoxypropyl ether	$C_6H_{10}O_2$	106-92-3	see Allyl glycidyl ether				
Allyl glycidyl ether [AGE]	$C_6H_{10}O_2$	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_2O_3, $Al(OH)_3$ and AlOOH	1344-28-1					
inhalable particulate			-	10	-	-	See Note [c]
respirable particulate			-	5	-	-	
Aluminium salts, soluble	-	-	-	2	-	-	
Aminodimethylbenzene	$(CH_3)_2C_6H_3NH_2$	1300-73-8	see Xylidine				
2-Aminoethanol	$NH_2CH_2CH_2OH$	141-43-5	see Ethanolamine				
2-Aminopyridine	$NH_2C_5H_4N$	504-29-0	0,5	2	2	8	
Ammonia	NH_3	7664-41-7	25	17	35	24	
Ammonium chloride, fume	NH_4Cl	12125-02-9	-	10	-	20	
Ammonium sulphamate	$NH_2SO_3NH_4$	7773-06-0	-	10	-	20	
n-Amyl acetate	$CH_3COO(CH_2)_4CH_3$	628-63-7	100	530	150	800	
sec-Amyl acetate	$CH_3COOCH(CH_3)C_3H_7$	626-38-0	-	-	150	800	
Aniline	$C_6H_5NH_2$	62-53-3	2	10	5	20	Sk
Anisidines, *o*- and *p*-isomers	$NH_2C_6H_4OCH_3$	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 f/ml	-	-	
Asphalt, petroleum fumes	-	8052-42-4	-	5	-	10	
Atrazine	$C_8H_{14}ClN_5$	1912-24-9	-	10	-	-	
Azinphos-methyl	$C_{10}H_{12}O_3PS_2N_3$	86-50-0	-	0,2	-	0,6	Sk
Aziridine	CH_2NHCH_2	151-56-4	see Ethyleneimine				
gamma-BHC	$C_6H_6Cl_6$	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	$C_{14}H_{18}N_4O_3$	17804-35-2	-	10	-	15	
*Benzene	C_6H_6	71-43-2	5	16	-	-	
Benzenethiol	C_6H_5SH	108-98-5	0,5	2	-	-	
Benzene-1,2,4,-tricarboxylic acid 1,2-anhydride	$C_9H_4O_5$	552-30-7	see Trimellitic anhydride				
p-Benzoquinone	$C_6H_4O_2$	106-51-4	see Quinone				
Benzoyl peroxide	$(C_6H_5CO)_2O_2$	94-36-0	-	5	-	-	
Benzyl butyl phthalate	$C_{19}H_{20}O_4$	85-68-7	see Butyl benzyl phthalate				
Benzyl chloride	$C_6H_5CH_2Cl$	100-44-7	1	5	-	-	
*Beryllium and beryllium compounds [as Be]	Be	7440-41-7 (metal)	-	0,002	-	-	
Biphenyl	$(C_6H_5)_2$	92-52-4	0,2	1,5	0,6	4	
*Bis(chloromethyl) ether [BCME]	$ClCH_2OCH_2Cl$	542-88-1	0,001	0,005	-	-	
Bis(2,3-epoxypropyl) ether	$(OCH_2CHCH_2)_2O$	2238-07-5	See Diglycidyl ether				
Bis(2-ethylhexyl) phthalate	$C_6H_4(COOC_8H_{17})_2$	117-81-7	see Di-(2-ethylhexyl) phthalate				

SUBSTANCE	FORMULA	CAS Numbers	OEL		OEL-STEL/ OEL-C		Notes
			ppm	mg/m³	ppm	mg/m³	
2,2-Bis(*p*-Methoxyphenyl)-1,1,1-trichloroethane (DMDT)	$(C_6H_4OCH_3)_2CHCCl_3$	72-43-5	see Methoxychlor				
Bismuth telluride [as Bi_2Te_3]	Bi_2Te_3	1304-82-1					
Undoped			-	10	-	20	
Selenium-doped		-	-	5	-	10	
Borates, tetra, sodium salts	-	-					
Anhydrous	$Na_2B_4O_7$	1330-43-4	-	1	-	-	
Decahydrate	$Na_2B_4O_7.10H_2O$	1303-96-4	-	5	-	-	
Pentahydrate	$Na_2B_4O_7.5H_2O$	12179-04-3	-	1	-	-	
Bornan-2-one	$C_{10}H_{16}O$	76-22-2	see Camphor, synthetic				
Boron oxide	B_2O_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	$C_9H_{13}BrN_2O_2$	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_2BrCl	74-97-5	see Chlorobromomethane				
Bromoethane	CH_3CH_2Br	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_3Br	74-83-9	see Methyl bromide				
Bromotrifluoromethane	CF_3Br	75-63-8	see Trifluorobromomethane				
*Buta-1,3-diene	$CH_2=CHCH=CH_2$	106-99-0	10	22	-	-	
n-Butane	$CH_3CH_2CH_2CH_3$	106-97-8	600	1430	750	1780	
Butan-1-ol	$CH_3CH_2CH_2CH_2OH$	71-36-3	see *n*-Butyl alcohol				
Butan-2-ol	$CH_3CH(OH)CH_2CH_3$	78-92-2	see *sec*-Butyl alcohol				
Butan-2-one	$CH_3COCH_2CH_3$	78-93-3	see Methyl ethyl ketone				
trans-But-2-enal	$CH_3CH=CHCHO$	4170-30-3	see Crotonaldehyde				
*2-Butoxyethanol [EGBE]	$C_4H_9OCH_2CH_2OH$	111-76-2	25	120	-	-	Sk
n-Butyl acetate	$CH_3COO(CH_2)_3CH_3$	123-86-4	150	710	200	950	
sec-Butyl acetate	$CH_3COOCH(CH_3)CH_2CH_3$	105-46-4	200	950	250	1190	
tert-Butyl acetate	$CH_3COOC(CH_3)_3$	540-88-5	200	950	250	1190	
Butyl acrylate	$CH_2=CHCOOC_4H_9$	141-32-2	10	55	-	-	
n-Butyl alcohol	$CH_3CH_2CH_2CH_2OH$	71-36-3	-	-	50	150	Sk
sec-Butyl alcohol	$CH_3CH(OH)CH_2CH_3$	78-92-2	100	300	150	450	
tert-Butyl alcohol	$(CH_3)_3COH$	75-65-0	100	300	150	450	
n-Butylamine	$CH_3CH_2CH_2CH_2NH_2$	109-73-9	-	-	5	15	Sk
Butyl benzyl phthalate	$C_{19}H_{20}O_4$	85-68-7	-	5	-	-	
n-Butyl chloroformate	$ClCO_2C_4H_{10}$	592-34-7	1	5,6	-	-	
n-Butyl glycidyl ether [BGE]	$C_4H_9OCH_2CHCH_2O$	2426-08-6	25	135	-	-	
n-Butyl lactate	$CH_3CH(OH)COOC_4H_9$	138-22-7	5	25	-	-	
2-*sec*-Butylphenol	$C_2H_5(CH_3)CHC_6H_4OH$	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	$NH(CH_2)_5CO$	105-60-2					
inhalable particulate			-	1	-	3	
vapour			5	20	10	40	
Captafol	$C_{10}H_9Cl_4NO_2S$	2425-06-1	-	0,1	-	-	Sk
Captan	$C_9H_8Cl_3NO_2S$	133-06-2	-	5	-	15	
Carbaryl	$CH_3NHCOOC_{10}H_7$	63-25-2	-	5	-	10	
Carbofuran	$C_{12}H_{15}NO_3$	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/m³	ppm	mg/m³	
7Carbon 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	$C_6H_4(OH)_2$	120-80-9	5	20	-	-	
Cellulose	$(C_6H_{10}O_5)_n$	9004-34-6					
inhalable particulate			-	10	-	20	
respirable particulate			-	5	-	-	
Cement	-	-					
inhalable particulate			-	10	-	-	
respirable particulate			-	5	-	-	
Chlordane	$C_{10}H_6Cl_8$	57-74-9	-	0,5	-	2	Sk
Chlorine	Cl_2	7782-50-5	0,5	1,5	1	3	
Chlorodiphenyl (PCBs)							
Chlorodiphenyl (42% chlorine)	$C_6H_4ClC_6H_3Cl_2$ (Approx)	53469-21-9	-	1	-	2	Sk
Chlorodiphenyl (54% chlorine)	$C_6H_3Cl_2C_6H_2Cl_3$ (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	$ClCH_2CHO$	107-20-0	-	-	1	3	
2-Chloroacetophenone	$C_6H_5COCH_2Cl$	532-27-4	0,05	0,3	-	-	
Chloroacetyl chloride	$ClCH_2COCl$	79-04-9	0,05	0,2	-	-	
Chlorobenzene	C_6H_5Cl	108-90-7	50	230	-	-	
Chlorobromomethane	CH_2BrCl	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_3H_5OCl	106-89-8	see *Epichlorohydrin				
Chloroethane	CH_3CH_2Cl	75-00-3	see Ethyl chloride				
2-Chloroethanol	CH_2ClCH_2OH	107-07-3	see Ethylene chlorohydrin				
*Chloroethylene (VCM)	H_2C=CHCl	75-01-4	see *Vinyl chloride				
Chloroform	$CHCl_3$	67-66-3	2	9,8	-	-	Sk
Chloromethane	CH_3Cl	74-87-3	see Methyl chloride				
1-Chloro-4-nitrobenzene	$ClC_6H_4NO_2$	100-00-5	-	1	-	2	Sk
Chloropentafluoroethane	$CClF_2CF_3$	76-15-3	1000	6320	-	-	
Chloropicrin	CCl_3NO_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=$CHCH_2Cl$	107-05-1	see Allyl chloride				
Chlorosulphonic acid	HSO_3Cl	7790-94-5	-	1	-	-	
alpha-Chlorotoluene	$C_6H_5CH_2Cl$	100-44-7	see Benzyl chloride				
2-Chlorotoluene	$ClC_6H_4CH_3$	95-49-8	50	250	-	-	
2-Chloro-6-(trichloromethyl) pyridine	$ClC_5H_3NCCl_3$	1929-82-4	see Nitrapyrin				
Chlorpyrifos	$C_9H_{11}Cl_3NO_3PS$	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			-	2	-	-	
>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	$CH_3C_6H_4OH$	1319-77-3	5	22	-	-	Sk
Cristobalite	-	14464-46-1	see Silica, crystalline				
Crotonaldehyde	CH_3CH=CHCHO	4170-30-3	2	6	6	18	
Cryofluorane [INN]	$CClF_2CClF_2$	76-14-2	see 1,2-Dichlorotetrafluoroethane				
Cumene	$C_6H_5CH(CH_3)_2$	98-82-8	25	120	75	370	Sk
Cyanamide	NH_2CN	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	ClCN	506-77-4	-	-	0,3	0,6	

SUBSTANCE	FORMULA	CAS Numbers	OEL		OEL-STEL/ OEL-C		Notes
			ppm	mg/m³	ppm	mg/m³	
Cychlohexane	C_6H_{12}	110-82-7	100	340	300	1030	
Cyclohexanol	$C_6H_{11}OH$	108-93-0	50	200	-	-	
Cyclohexanone	$C_6H_{10}O$	108-94-1	25	100	100	400	
Cyclohexene	C_6H_{10}	110-83-8	300	1015	-	-	
Cyclohexylamine	$C_6H_{11}NH_2$	108-91-8	10	40	-	-	
Cyclonite [RDX]	$C_3H_6N_6O_6$	121-82-4	-	1,5	-	3	Sk
Cyhexatin	$(C_6H_{11})_3SnOH$	13121-70-5	-	5	-	10	
2,4-D	$C_6H_3Cl_2OCH_2COOH$	94-75-7	-	10	-	20	
DDT	$(C_6H_4Cl)_2CHCCl_3$	50-29-3	-	1	-	3	
DDVP	$(CH_3O)_2POOCH{=}CCl_2$	62-73-7	see Dichlorvos				
2,4-DES	$C_8H_7Cl_2NaO_4S$	136-78-7	see Sodium 2,4-dichlorophenoxyethyl sulphate				
DMDT	$(C_6H_4OCH_3)_2CHCCl_3$	72-43-5	see Methoxychlor				
Derris, commercial	$C_{23}H_{22}O_6$	83-79-4	see Rotenone				
Diacetone alcohol	$CH_3COCH_2C(CH_3)_2OH$	123-42-2	50	240	75	360	
Dialkyl 79 phthalate	$C_6H_4(COOC_{9-11}H_{19-23})_2$	-	-	5	-	-	
Diallyl phthalate	$C_6H_4(COOCH_2CHCH_2)_2$	131-17-9	-	5	-	-	
2,2'-Diaminodiethylamine	$(NH_2CH_2CH_2)_2NH$	111-40-0	see Diethylene triamine				
*4,4'-Diaminodiphenylmethane [DADPM, DDM]	$CH_2(C_6H_4NH_2)_2$	101-77-9	see *4,4'-Methylenedianiline				
1,2-Diaminoethane	$NH_2CH_2CH_2NH_2$	107-15-3	see Ethylene diamine				
Diammonium peroxodisulphate [as S_2O_8]	$(NH_4)_2S_2O_8$	7727-54-0	-	1	-	-	
Diatomaceous earth, natural [respirable particulate]	SiO_2	68855-54-9	-	1,5	-	-	
Diazinon	$C_{12}H_{21}N_2O_3PS$	333-41-5	-	0,1	-	0,3	Sk
Diazomethane	CH_2N_2	334-88-3	0,2	0,4	-	-	
Dibenzoyl peroxide	$(C_6H_5CO)_2O_2$	94-36-0	see Benzoyl peroxide				
Dibismuth tritelluride	Bi_2Te_3	1304-82-1	see Bismuth telluride				
Diborane	B_2H_6	19287-45-7	0,1	0,1	-	-	
Diboron trioxide	B_2O_3	1303-86-2	see Boron oxide				
Dibrom	$C_4H_7Br_2Cl_2O_4P$	300-76-5	see Naled				
1,2-Dibromo-2,2-dichloroethyl dimethyl phosphate	$C_4H_7Br_2Cl_2O_4P$	300-76-5	see Naled				
Dibromodifluoromethane	CBr_2F_2	75-61-6	100	860	150	1290	
*1,2-Dibromoethane	$BrCH_2CH_2Br$	106-93-4	see *Ethylene dibromide				
Dibutyl hydrogen phosphate	$(C_4H_9O)_2(OH)PO$	107-66-4	see Dibutyl phosphate				
Dibutyl phosphate	$(C_4H_9O)_2(OH)PO$	107-66-4	1	5	2	10	
Dibutyl phthalate	$C_6H_4(CO_2C_4H_9)_2$	84-74-2	-	5	-	10	
Dichloroacetylene	$ClC{\equiv}CCl$	7572-29-4	-	-	0,1	0,4	
1,2-Dichlorobenzene	$C_6H_4Cl_2$	95-50-1	-	-	50	300	
1,4-Dichlorobenzene	$C_6H_4Cl_2$	106-46-7	25	150	50	300	
Dichlorodifluoromethane	CCl_2F_2	75-71-8	1000	4950	1250	6200	
1,3-Dichloro-5,5-dimethyl hydantoin	$C_5H_6Cl_2N_2O_2$	118-52-5	-	0,2	-	0,4	
Dichlorodiphenyltrichloroethane	$(C_6H_4Cl)_2CHCCl_3$	50-29-3	see DDT				
1,1-Dichloroethane	CH_3CHCl_2	75-34-3	200	810	400	1620	
*1,2-Dichloroethane	$ClCH_2CH_2Cl$	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	$CHCl_2F$	75-43-4	10	40	-	-	
*Dichloromethane	CH_2Cl_2	75-09-2	see *Methylene chloride				
*2,2'-Dichloro-4,4'-methylene dianiline	$CH_2(C_6H_3ClNH_2)_2$	101-14-4	see *4,4'-Methylenebis(2-chloroaniline)				
2,4-Dichlorophenoxyacetic acid	$C_6H_3Cl_2OCH_2COOH$	94-75-7	see 2,4-D				
1,3-Dichloropropene, cis & trans isomers	$ClHC{=}CHCH_2Cl$	542-75-6	1	5	10	50	Sk
1,2-Dichlorotetrafluoroethane	$CClF_2CClF_2$	76-14-2	1000	7000	1250	8750	
Dichlorvos	$(CH_3O)_2POOCH{=}CCl_2$	62-73-7	0,1	1	0,3	3	Sk
Dicyclohexyl phthalate	$C_6H_4(COOC_6H_{11})_2$	84-61-7	-	5	-	-	
Dicyclopentadiene	$C_{10}H_{12}$	77-73-6	5	30	-	-	
Dicyclopentadienyl iron	$(C_5H_5)_2Fe$	102-54-5	-	10	-	20	
Dieldrin	$C_{12}H_8Cl_6O$	60-57-1	-	0,25	-	0,75	Sk
Diethanolamine	$(CH_2CH_2OH)_2NH$	111-42-2	3	15	-	-	
Diethylamine	$(C_2H_5)_2NH$	109-89-7	10	30	25	75	
2-Diethylaminoethanol	$(C_2H_5)_2NCH_2CH_2OH$	100-37-8	10	50	-	-	Sk
Diethylene glycol	$(CH_2CH_2OH)_2O$	111-46-6	23	100	-	-	
Diethylene triamine	$(NH_2CH_2CH_2)_2NH$	111-40-0	1	4	-	-	Sk
Diethyl ether	$C_2H_5OC_2H_5$	60-29-7	see Ethyl ether				
Di-(2-ethylhexyl) phthalate [DEHP]	$C_6H_4(COOC_8H_{17})_2$	117-81-7	-	5	-	10	

SUBSTANCE	FORMULA	CAS Numbers	OEL		OEL-STEL/ OEL-C		Notes
			ppm	mg/m³	ppm	mg/m³	
Diethyl ketone	$CH_3CH_2COCH_2CH_3$	96-22-0	200	700	250	875	
Diethyl phthalate	$C_6H_4(COOC_2H_5)_2$	84-66-2	-	5	-	10	
Diflurochloromethane	$CHClF_2$	75-45-6	see Chlorodifluoromethane				
Diglycidyl ether [DGE]	$(OCH_2CHCH_2)_2O$	2238-07-5	0,1	0,6	-	-	
o-Dihydroxybenzene	$C_6H_4(OH)_2$	120-80-9	see Catechol				
m-Dihydroxybenzene	$C_6H_4(OH)_2$	108-46-3	see Resorcinol				
p-Dihydroxybenzene	$C_6H_4(OH)_2$	123-31-9	see Hydroquinone				
1,2 Dihydroxyethane	$HOCH_2CH_2OH$	107-21-1	see Ethylene glycol				
Diisobutyl ketone	$[(CH_3)_2CHCH_2]_2CO$	108-83-8	25	150	-	-	
Diisobutyl phthalate	$C_6H_4(COOCH_2CH(CH_3)_2]_2$	84-69-5	-	5	-	-	
Diisodecyl phthalate	$(C_{10}H_{21}CO_2)_2C_6H_4$	26761-40-0	-	5	-	-	
Diisononyl phthalate	$C_6H_4(COOC_9H_{19})_2$	28553-12-0	-	5	-	-	
Diisooctyl phthalate	$C_6H_4(CO_2C_8H_{17})_2$	27554-26-3	-	5	-	-	
Diisopropylamine	$(CH_3)_2CHNHCH(CH_3)_2$	108-18-9	5	20	-	-	
Diisopropyl ether	$(CH_3)_2CHOCH(CH_3)_2$	108-20-3	see Isopropyl ether				
Di-linear 79 phthalate	$C_6H_4(COOC_{7-9}H_{13-19})_2$	-	see Dialkyl 79 phthalate				
Dimethoxymethane	$CH_2(OCH_3)_2$	109-87-5	see Methylal				
N,N-Dimethylacetamide	$CH_3CON(CH_3)_2$	127-19-5	10	36	20	71	Sk
Dimethylamine	$(CH_3)_2NH$	124-40-3	10	18	-	-	
N,N-Dimethylaniline	$C_6H_5N(CH_3)_2$	121-69-7	5	25	10	50	Sk
1,3-Dimethylbutyl acetate	$C_8H_{16}O_2$	108-84-9	see *sec*-Hexyl acetate				
Dimethyl ether	CH_3OCH_3	115-10-6	400	750	500	940	
N,N-Dimethylethylamine [DMEA]	$C_2H_5(CH_3)_2N$	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	$[(CH_3)_2CHCH_2]_2CO$	108-83-8	see Diisobutyl ketone				
Dimethyl phthalate	$C_6H_4(COOCH_3)_2$	131-11-3	-	5	-	10	
Dimethyl sulphate	$(CH_3)_2SO_4$	77-78-1	0,1	0,5	0,1	0,5	Sk
Dinitrobenzene, all isomers	$C_6H_4(NO_2)_2$	25154-54-5	0,15	1	0,5	3	Sk
Dinitro-*o*-cresol	$CH_3C_6H_2(OH)(NO_2)_2$	534-52-1	-	0,2	-	0,6	Sk
Dinitrotoluene	$CH_3C_6H_3(NO_2)_2$	25321-14-6	-	1,5	-	5	Sk
Dinonyl phthalate	$C_6H_4(COOC_9H_{19})_2$	84-76-4	-	5	-	-	
Di-*sec*-octyl phthalate	$C_6H_4(COOC_8H_{17})_2$	117-81-7	see Di-(2-ethylhexyl) phthalate				
1,4-Dioxane, tech grade	$OCH_2CH_2OCH_2CH_2$	123-91-1	25	90	100	360	Sk
Dioxathion	$C_{12}H_{26}O_6P_2S_2$	78-34-2	-	0,2	-	-	Sk
Diphenyl	$(C_6H_5)_2$	92-52-4	see Biphenyl				
Diphenylamine	$(C_6H_5)_2NH$	122-39-4	-	10	-	20	
Diphenyl ether [vapour]	$C_6H_5OC_6H_5$	101-84-8	see Phenyl ether				
Diphosphorus pentasulphide	P_2S_5 / P_4S_{10}	1314-80-3	see Phosphorus pentasulphide				
Diphosphorus pentoxide	P_2O_5 / P_4O_{10}	1314-56-3	-	-	-	2	
Dipotassium peroxodisulphate [as S_2O_8]	$K_2S_2O_8$	7727-21-1	-	1	-	-	
Diquat dibromide	$C_{12}H_{12}Br_2N_2$	85-00-7	-	0,5	-	1	
Disodium disulphite	$Na_2S_2O_5$	7681-57-4	see Sodium metabisulphate				
Disodium peroxodisulphate [as S_2O_8]	$Na_2S_2O_8$	7775-27-1	-	1	-	-	
Disodium tetraborate	$Na_2B_4O_7$	1330-33-4	see Borates, tetra, sodium salts				
Disulfoton	$(C_2H_5O)_2PSCH_2CH_2SC_2H_5$	298-04-4	-	0,1	-	0,3	
Disulphur decafluoride	S_2F_{10}	5714-22-7	see Sulphur pentafluoride				
Disulphur dichloride	S_2Cl_2	10025-67-9	see Sulphur monochloride				
2,6-Di-*tert*-butyl-*p*-cresol	$(C_4H_9)_2CH_3C_6H_2OH$	128-37-0	-	10	-	-	
6,6-Di-*tert*-butyl-4,4-thiodi-*m*-cresol	$[CH_3(OH)C_6H_2C(CH_3)_3]_2S$	96-69-5	see 4,4'-Thiobis(6-*tert*-butyl-*m*-cresol)				
Diuron	$C_9H_{10}Cl_2N_2O$	330-54-1	-	10	-	-	
Divanadium pentoxide	V_2O_5	1314-62-1	see Vanadium pentoxide				
Divinyl benzene [DVB]	$C_6H_4(HC=CH_2)_2$	1321-74-0	10	50	-	-	
Emery	Al_2O_3	1302-74-5					
inhalable particulate			-	10	-	-	
respirable particulate			-	5	-	-	
Endosulfan	$C_9H_6Cl_6O_3S$	115-29-7	-	0,1	-	0,3	Sk
Endrin	$C_{12}H_8Cl_6O$	72-20-8	-	0,1	-	0,3	Sk
Enflurane	$CHFClCF_2OCHF_2$	13838-16-9	50	380	-	-	
*Epichlorohydrin	C_3H_5OCl	106-89-8	0,5	2	1,5	6	Sk
1,2-Epoxy-4-epoxyethyl-cyclohexane	$C_8H_{12}O_2$	106-87-6	see 4-Vinyl cyclohexene dioxide				
2,3-Epoxypropyl isopropyl ether	$C_6H_{12}O_2$	4016-14-2	see Isopropyl glycidyl ether				
Ethane-1,2-diol	$HOCH_2CH_2OH$	107-21-1	see Ethylene glycol				
Ethanethiol	CH_3CH_2SH	75-08-1	see Ethyl mercaptan				
Ethanol	CH_3CH_2OH	64-17-5	1000	1900	-	-	
Ethanolamine	$NH_2CH_2CH_2OH$	141-43-5	3	8	6	15	
Ether	$C_2H_5OC_2H_5$	60-29-7	see Ethyl ether				

SUBSTANCE	FORMULA	CAS Numbers	OEL		OEL-STEL/ OEL-C		Notes
			ppm	mg/m³	ppm	mg/m³	
*2-Ethoxyethanol [EGEE]	$CH_3CH_2OCH_2CH_2OH$	110-80-5	10	37	-	-	Sk
*2-Ethoxyethyl acetate [EGEEA]	$C_2H_5OCH_2CH_2OOCCH_3$	111-15-9	10	54	-	-	Sk
Ethyl acetate	$CH_3COOC_2H_5$	141-78-6	400	1400	-	-	
Ethyl acrylate	CH_2=$CHCOOC_2H_5$	140-88-5	5	20	15	60	
Ethyl alcohol	CH_3CH_2OH	64-17-5	see Ethanol				
Ethylamine	$CH_3CH_2NH_2$	75-04-7	10	18	-	-	
Ethyl amyl ketone	$C_8H_{16}O$	541-85-5	25	130	-	-	
Ethyl benzene	$CH_3CH_2C_6H_5$	100-41-4	100	435	125	545	
Ethyl bromide	CH_3CH_2Br	74-96-4	200	890	250	1110	
Ethyl butyl ketone	$CH_3CH_2CO(CH_2)_3CH_3$	106-35-4	50	240	75	345	
Ethyl chloride	CH_3CH_2Cl	75-00-3	1000	2600	1250	3250	
Ethyl chloroformate	$ClCO_2C_2H_5$	541-41-3	1	4,4	-	-	
Ethylene chlorohydrin	CH_2ClCH_2OH	107-07-3	-	-	1	3	Sk
Ethylene diamine	$NH_2CH_2CH_2NH_2$	107-15-3	10	25	-	-	
*Ethylene dibromide	$BrCH_2CH_2Br$	106-93-4	0,5	4	-	-	Sk
*Ethylene dichloride	$ClCH_2CH_2Cl$	107-06-2	5	20	-	-	Sk
Ethylene dinitrate	$O_2NOCH_2CH_2ONO_2$	628-96-6	see Ethylene glycol dinitrate				
Ethylene glycol	$HOCH_2CH_2OH$	107-21-1					
inhalable particulate			-	10	-	-	
vapour			-	60	-	125	
Ethylene glycol dinitrate [EGDN]	$O_2NOCH_2CH_2ONO_2$	628-96-6	0,2	1,2	0,2	1,2	Sk
*Ethylene glycol monobutyl ether [EGBE]	$C_4H_9OCH_2CH_2OH$	111-76-2	see *2-Butoxyethanol				
*Ethylene glycol monoethyl ether [EGEE]	$CH_3CH_2OCH_2CH_2OH$	110-80-5	See *2-Ethoxyethanol				
*Ethylene glycol monoethyl ether acetate [EGEEA]	$C_2H_5OCH_2CH_2OOCCH_3$	111-15-9	see *2-Ethoxyethyl acetate				
*Ethylene glycol monomethyl ether [EGME]	$CH_3OCH_2CH_2OH$	109-86-4	see *2-Methoxyethanol				
*Ethylene glycol monomethyl ether acetate [EGMEA]	$CH_3COOCH_2CH_2OCH_3$	110-49-6	see *2-Methoxyethyl acetate				
Ethyleneimine	CH_2NHCH_2	151-56-4	0,5	1	-	-	Sk
*Ethylene oxide	CH_2CH_2O	75-21-8	5	10	-	-	
Ethyl ether	$C_2H_5OC_2H_5$	60-29-7	400	1200	500	1500	
Ethyl formate	CH_3CH_2OCHO	109-94-4	100	300	150	450	
2-Ethylhexyl chloroformate	$ClCO_2CH_2CH(CH_2)_3CH_3$	24468-13-1	1	7,9	-	-	
Ethylidene dichloride	CH_3CHCl_2	75-34-3	see 1,1-Dichloroethane				
Ethyl mercaptan	CH_3CH_2SH	75-08-1	0,5	1	2	3	
4-Ethylmorpholine	$C_2H_5ONCH_2CH_3$	100-74-3	5	23	20	95	Sk
Ethyl silicate	$Si(OC_2H_5)_4$	78-10-4	10	85	30	255	
Fenchlorphos	$(CH_3O)_2PSOC_6H_2Cl_3$	299-84-3	see Ronnel				
Ferbam	$[(CH_3)_2NCSS]_3Fe$	14484-64-1	-	10	-	20	
Ferrocene	$(C_5H_5)_2Fe$	102-54-5	see Dicyclopentadienyl iron				
Ferrovanadium 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	$CHCl_2F$	75-43-4	see Dichlorofluoromethane				
Fluorotrichloromethane	CCl_3F	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	$C_5H_4O_2$	98-01-1	see Furfural				
Furfural	$C_5H_4O_2$	98-01-1	2	8	10	40	Sk
Furfuryl alcohol	OCH=$CHCH$=CCH_2OH	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	$OCH(CH_2)_3CHO$	111-30-8	-	-	0,2	0,7	
Glycerol, mist	$HOCH_2CH(OH)CH_2OH$	56-81-5	-	10	-	-	
Glycerol trinitrate	$CH_2NO_2CHNO_2CH_2NO_2$	55-63-0	see Nitroglycerine				
Glycol monoethyl ether	$CH_3CH_2OCH_2CH_2OH$	110-80-5	see *2-Ethoxyethanol				
Graphite, natural & synthetic	C	7440-44-0 7782-42-5					
inhalable particulate			-	10	-	-	
respirable particulate			-	5	-	-	
*Grain dust (oat, wheat, barley)	-	-	-	10	-	-	Sen
Guthion	$C_{10}H_{12}O_3PS_2N_3$	86-50-0	see Azinphos-methyl				
Gypsum	$CaSO_4.2H_2O$	13397-24-5					
inhalable particulate			-	10	-	-	
respirable particulate			-	5	-	-	

SUBSTANCE	FORMULA	CAS Numbers	OEL		OEL-STEL/ OEL-C		Notes
			ppm	mg/m³	ppm	mg/m³	
gamma-HCH	$C_6H_6Cl_6$	58-89-9	see Lindane				
Hafnium	Hf	7440-58-6	-	0,5	-	1,5	
Halothane	$CF_3CHClBr$	151-67-7	10	80	-	-	
Heptachlor	$C_{10}H_5Cl_7$	76-44-8	-	0,5	-	2	Sk
n-Heptane	$CH_3(CH_2)_5CH_3$	142-82-5	400	1600	500	2000	
Heptan-2-one	$CH_3CO(CH_2)_4CH_3$	110-43-0	see Methyl *n*-amyl ketone				
Heptan-3-one	$CH_3CH_2CO(CH_2)_3CH_3$	106-35-4	see Ethyl butyl ketone				
gamma-Hexachlorocyclohexane	$C_6H_6Cl_6$	58-89-9	see Lindane				
Hexachloroethane	CCl_3CCl_3	67-72-1					
vapour			5	50	-	-	
inhalable particulate			-	10	-	-	
respirable particulate			-	5	-	-	
Hexahydro-1,3,5-trinitro-1,3,5-triazine	$C_3H_6N_6O_6$	121-82-4	see Cyclonite				
Hexane, all isomers except n-Hexane	C_6H_{14}	-	500	1800	1000	3600	
n-Hexane	$CH_3(CH_2)_4CH_3$	110-54-3	20	70	-	-	
1,6-Hexanolactam	$NH(CH_2)_5CO$	105-60-2	see Caprolactam				
Hexan-2-one	$CH_3CO(CH_2)_3CH_3$	591-78-6	see Methyl-*n*-butyl ketone				
Hexone	$CH_3COCH_2CH(CH_3)_2$	108-10-1	see Methyl isobutyl ketone				
sec-Hexyl acetate	$C_8H_{16}O_2$	108-84-9	50	300	100	600	
Hexylene glycol	$(CH_3)_2COHCH_2CHOHCH_3$	107-41-5	25	125	25	125	
Hydrazine	H_2NNH_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_2O_2	7722-84-1	1	1,5	2	3	
Hydrogen selenide [as Se]	H_2Se	7783-07-5	0,05	0,2	-	-	
Hydrogen sulphide	H_2S	7783-06-4	10	14	15	21	
Hydroquinone	$C_6H_4(OH)_2$	123-31-9	-	2	-	4	
4-Hydroxy-4-methyl-pentan-2-one	$CH_3COCH_2C(CH_3)_2OH$	123-42-2	see Diacetone alcohol				
2-Hydroxypropyl acrylate	$C_6H_{10}O_3$	999-61-1	0,5	3	-	-	Sk
2,2'-Iminodiethanol	$(CH_2CH_2OH)_2NH$	111-42-2	see Diethanolamine				
2,2'-Iminodi(ethylamine)	$(NH_2CH_2CH_2)_2NH$	111-40-0	see Diethylene triamine				
Indene	C_9H_8	95-13-6	10	45	15	70	
Indium & compounds [as In]	In	7440-74-6	-	0,1	-	0,3	
Iodine	I_2	7553-56-2	-	-	0,1	1	
Iodoform	CHI_3	75-47-8	0,6	10	1	20	
Iodomethane	CH_3I	74-88-4	see Methyl iodide				
Iron oxide, dust & fume [as Fe]	Fe_2O_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	$CH_3COOCH_2CH_2CH(CH_3)_2$	123-92-2	100	525	125	655	
Isoamyl alcohol	$(CH_3)_2CHCH_2CH_2OH$	123-51-3	100	360	125	450	
Isoamyl methyl ketone	$CH_3COCH_2CH_2CH(CH_3)_2$	110-12-3	see Methyl isoamyl ketone				
Isobutyl acetate	$CH_3COOCH_2CH(CH_3)_2$	110-19-0	150	700	187	875	
Isobutyl alcohol	$(CH_3)_2CHCH_2OH$	78-83-1	50	150	75	225	
Isobutyl methyl ketone	$CH_3COCH_2CH(CH_3)_2$	108-10-1	see Methyl isobutyl ketone				
*Isocyanates, all [as –NCO]	-	-	-	0,02	-	0,07	Sen
Isoflurane	$CF_3CHClOCHF_2$	26675-46-7	50	380	-	-	
Isooctyl alcohol [mixed isomers]	$C_8H_{17}OH$	26952-21-6	50	270	-	-	
Isopentyl acetate	$CH_3COOCH_2CH_2CH(CH_3)_2$	123-92-2	see Isoamyl acetate				
Isophorone	$C_9H_{14}O$	78-59-1	-	-	5	25	
Isophorone diisocyanate [IPDI]	$C_{12}H_{18}N_2O_2$	4098-71-9	see *Isocyanates				
Isopropyl acetate	$CH_3COOCH(CH_3)_2$	108-21-4	-	-	200	840	
Isopropyl alcohol	$(CH_3)_2CHOH$	67-63-0	400	980	500	1225	
Isopropyl benzene	$C_6H_5CH(CH_3)_2$	98-82-8	see Cumene				
Isopropyl chloroformate	$ClCO_2CH(CH_3)_2$	108-23-6	1	5	-	-	
Isopropyl ether	$(CH_3)_2CHOCH(CH_3)_2$	108-20-3	250	1050	310	1320	
Isopropyl glycidyl ether [IGE]	$C_6H_{12}O_2$	4016-14-2	50	240	75	360	
Kaolin, respirable particulate	$Al_2Si_4O_{10}(OH)_8$	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/m³	ppm	mg/m³	
*Lead, elemental, and inorganic compounds [as Pb]	Pb	7439-92-1 (metal)	-	0,15	-	-	
*Lead tetra-ethyl [as Pb]	$Pb(C_2H_5)_4$	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	$C_6H_6Cl_6$	58-89-9	-	0,1	-	-	Sk
Liquified petroleum gas [LPG]	Mixture: C_3H_8; C_3H_6; C_4H_8; C_4H_{10}	68476-85-7	1000	1800	1250	2250	
Lithium hydride	LiH	7580-67-8	-	0,025	-	-	
Lithium hydroxide	LiOH	1310-65-2	-	-	-	1	
*MBOCA	$CH_2(C_6H_2ClNH_2)_2$	101-14-4	see *4,4'-Methylenebis-(2-chloroaniline)				
*MDA	$CH_2(C_6H_4NH_2)_2$	101-77-9	see *4,4'Methylene dianiline				
*MDI	$CH_2(C_6H_4NCO)_2$	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	$C_{10}H_{19}O_6PS_2$	121-75-5	-	10	-	-	Sk
Maleic anhydride	$C_4H_2O_3$	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]	$C_5H_5Mn(CO)_3$	12079-65-1	-	0,1	-	0,3	Sk
Manganese tetroxide	Mn_3O_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]	$CH_3OC_6H_4OH$	150-76-5	-	5	-	-	
Mercaptoacetic acid	$HSCH_2COOH$	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	$(CH_3)_2C=CHCOCH_3$	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_3SH	74-93-1	see Methyl mercaptan				
Methanol	CH_3OH	67-56-1	200	260	250	310	Sk
Methomyl	$C_5H_{10}N_2O_2S$	16752-77-5	-	2,5	-	-	
Methoxychlor	$(C_6H_4OCH_3)_2CHCCl_3$	72-43-5	-	10	-	-	
*2-Methoxyethanol [EGME]	$CH_3OCH_2CH_2OH$	109-86-4	5	16	-	-	Sk
*2-Methoxyethyl acetate [EGMEA]	$CH_3COOCH_2CH_2OCH_3$	110-49-6	5	24	-	-	Sk
1-Methoxypropan-2-ol	$CH_3CHOHCH_2OCH_3$	107-98-2	see Propylene glycol monomethyl ether				
Methyl acetate	CH_3COOCH_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_3OH	67-56-1	see Methanol				
Methylamine	CH_3NH_2	74-89-5	10	12	-	-	
Methyl *n*-amyl ketone	$CH_3CO(CH_2)_4CH_3$	110-43-0	50	240	100	480	Sk
N-Methylaniline	$C_6H_5NHCH_3$	100-61-8	0,5	2	-	-	Sk
Methyl bromide	CH_3Br	74-83-9	5	20	15	60	Sk
3-Methylbutan-1-ol	$(CH_3)_2CHCH_2CH_2OH$	123-51-3	see Isoamyl alcohol				
1-Methylbutyl acetate	$CH_3COOCH(CH_3)C_3H_7$	626-38-0	see *sec*-Amyl acetate				
Methyl-*n*-butyl ketone	$CH_3CO(CH_2)_3CH_3$	591-78-6	5	20	-	-	Sk
Methyl chloride	CH_3Cl	74-87-3	50	105	100	210	
*Methyl chloroform	CH_3CCl_3	71-55-6	350	1900	450	2450	
Methyl 2-cyanoacrylate	$CH_2=C(CN)COOCH_3$	137-05-3	2	8	4	16	
Methylcyclohexane	$CH_3C_6H_{11}$	108-87-2	400	1600	500	2000	
Methylcyclohexanol	$CH_3C_6H_{10}OH$	25639-42-3	50	235	75	350	
2-Methylcyclohexanone	$CH_3CHCO(CH_2)_3CH_2$	583-60-8	50	230	75	345	Sk
Methylcyclopentadienyl, Manganese tricarbonyl [as Mn]	$CH_3C_5H_4Mn(CO)_3$	12108-13-3	-	0,2	-	0,6	Sk
2-Methyl-4,6-dinitrophenol	$CH_3C_6H_2(OH)(NO_2)_2$	534-52-1	see Dinitro-*o*-cresol				
*4,4'-Methylenebis(2-chloroaniline) [MBOCA]	$CH_2(C_6H_2ClNH_2)_2$	101-14-4	-	0,005	-	-	Sk
*Methylene chloride	CH_2Cl_2	75-09-2	100	350	250	780	
*4,4'-Methylenedianiline [MDA]	$CH_2(C_6H_4NH_2)_2$	101-77-9	0,01	0,08	-	-	

SUBSTANCE	FORMULA	CAS Numbers	OEL		OEL-STEL/ OEL-C		Notes
			ppm	mg/m³	ppm	mg/m³	
*4,4'-Methylene-diphenyl diisocyanate [MDI]	$CH_2(C_6H_4NCO)_2$	101-68-8	see *Isocyanates				
Methyl ethyl ketone [MEK]	$CH_3COCH_2CH_3$	78-93-3	200	600	300	900	Sk
Methyl ethyl ketone peroxides [MEKP]	$C_8H_{16}O_4$ or $C_8H_{18}O_6$	1338-23-4	-	-	C 0,2	C 1,5	
Methyl formate	$HCOOCH_3$	107-31-3	100	250	150	375	
5-Methylheptan-3-one	$C_8H_{16}O$	541-85-5	see Ethyl amyl ketone				
5-Methylhexan-2-one	$CH_3COCH_2CH_2CH(CH_3)_2$	110-12-3	see Methyl isoamyl ketone				
Methyl iodide	CH_3I	74-88-4	5	28	10	56	Sk
Methyl isoamyl ketone	$CH_3COCH_2CH_2CH(CH_3)_2$	110-12-3	50	240	75	360	Sk
Methyl isobutyl carbinol	$(CH_3)_2CHCH_2CH(OH)CH_3$	108-11-2	25	100	40	160	Sk
Methyl isobutyl ketone [MIBK]	$CH_3COCH_2CH(CH_3)_2$	108-10-1	50	205	75	300	Sk
*Methyl isocyanate	CH_3NCO	624-83-9	see *Isocyanates				
Methyl mercaptan	CH_3SH	74-93-1	0,5	1	-	-	
Methyl methacrylate	$CH_2=C(CH_3)COOCH_3$	80-62-6	50	205	100	410	
Methyl parathion	$C_8H_{10}NO_5PS$	298-00-0	-	0,2	-	0,6	Sk
2-Methylpentane-2,4-diol	$(CH_3)_2COHCH_2CHOHCH_3$	107-41-5	see Hexylene glycol				
4-Methylpentan-2-ol	$(CH_3)_2CHCH_2CH(OH)CH_3$	108-11-2	see Methyl isobutyl carbinol				
4-Methylpentan-2-one	$CH_3COCH_2CH(CH_3)_2$	108-10-1	see Methyl isobutyl ketone				
4-Methyl-3-penten-2-one	$(CH_3)_2C=CHCOCH_3$	141-79-7	see Mesityl oxide				
*4-Methyl-*m*-phenylene diisocyanate	$CH_3C_6H_3(NCO)_2$	584-84-9	see *Isocyanates				
2-Methylpropan-1-ol	$(CH_3)_2CHCH_2OH$	78-83-1	see Isobutyl alcohol				
2-Methylpropan-2-ol	$(CH_3)_3COH$	75-65-0	see *tert*-Butyl alcohol				
Methyl propyl ketone	$CH_3COCH_2CH_2CH_3$	107-87-9	200	700	250	875	
1-Methyl-2-pyrrolidone	$CH_3N(CH_2)_2CO$	872-50-4	100	400	-	-	
Methyl silicate	$(CH_3O)_4Si$	681-84-5	1	6	5	30	
alpha-Methyl styrene	$C_6H_5C(CH_3)=CH_2$	98-83-9	50	240	100	480	
Methylstyrenes	$CH_3C_6H_4CH=CH_2$	25013-15-4	see Vinyl toluenes, all isomers				
N-Methyl-N-2,4,6-tetranitroaniline	$(NO_2)_3C_6H_2N(NO_2)CH_3$	479-45-8	see Tetryl				
Mevinphos	$C_7H_{13}PO_6$	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	$ClCH_2CO_2H$	79-11-8	0,3	1	-	-	Sk
Morpholine	C_4H_9NO	110-91-8	20	70	30	105	Sk
Naled	$C_4H_7Br_2Cl_2O_4P$	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	$ClC_5H_3NCCl_3$	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	$NO_2C_6H_4NH_2$	100-01-6	-	6	-	-	Sk
Nitrobenzene	$C_6H_5NO_2$	98-95-3	1	5	2	10	Sk
Nitroethane	$C_2H_5NO_2$	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]	$CH_2NO_3CHNO_3CH_2NO_3$	55-63-0	0,2	2	0,2	2	Sk
Nitromethane	CH_3NO_2	75-52-5	100	250	150	375	
1-Nitropropane	$C_3H_7NO_2$	108-03-2	25	90	-	-	
*2-Nitropropane	$(CH_3)_2CH(NO_2)$	79-46-9	5	18	-	-	
Nitrotoluene, all isomers	$CH_3C_6H_4NO_2$	-	5	30	10	60	Sk
Nitrous oxide	N_2O	10024-97-2	100	180	-	-	
Octachloronaphtalene	$C_{10}Cl_8$	2234-13-1	-	0,1	-	0,3	Sk
n-Octane	$CH_3(CH_2)_6CH_3$	111-65-9	300	1450	375	1800	
Oil mist, mineral	-	-	-	5	-	10	
Orthophosphoric acid	H_3PO_4	7664-38-2	see Phosphoric acid				
Osmium tetraoxide [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/m³	ppm	mg/m³	
Oxalic acid	$COOHCOOH.2H_2O$	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	$(CH_2CH_2OH)_2O$	111-46-6	see Diethylene glycol				
Ozone	O_3	10028-15-6	-	-	0,2	0,4	
Paraffin wax, fume	-	8002-74-2	-	2	-	6	
Paraquate dichloride respirable particulate	$CH_2(C_5H_4N)_2CH_2.2Cl$	1910-42-5	-	0,1	-	-	
Parathion	$(C_2H_5O)_2PSOC_6H_4NO_2$	56-38-2	-	0,1	-	0,3	Sk
Parathion-methyl	$C_8H_{10}NO_5PS$	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_6Cl_5OH	87-86-5	-	0,5	-	1,5	Sk
Pentaerythritol	$C(CH_2OH)_4$	115-77-5					
inhalable particulate			-	10	-	20	
respirable particulate			-	5	-	-	
Pentane, all isomers	C_5H_{12}	-	600	1800	750	2250	
Pentan-2-one	$CH_3COCH_2CH_2CH_3$	107-87-9	see Methyl propyl ketone				
Pentan-3-one	$CH_3CH_2COCH_2CH_3$	96-22-0	see Diethyl ketone				
Pentyl acetate	$CH_3COO(CH_2)_4CH_3$	628-63-7	see *n*-Amyl acetate				
Perchloroethylene	$Cl_2C=CCl_2$	127-18-4	50	335	150	1000	
Perchloryl fluoride	ClO_3F	7616-94-6	3	14	6	28	
Phenacyl chloride	$C_6H_5COCH_2Cl$	532-27-4	see 2-Chloroacetophenone				
Phenol	C_6H_5OH	108-95-2	5	19	10	38	Sk
p-Phenylenediamine	$C_6H_4(NH_2)_2$	106-50-3	-	0,1	-	-	
Phenyl-2,3-epoxypropyl ether	$C_6H_5OCH_2CHCH_2$	122-60-1	1	6	-	-	
Phenyl ether, vapour	$C_6H_5OC_6H_5$	101-84-8	1	7	-	-	
*Phenylethylene	$C_6H_5CH=CH_2$	100-42-5	see *Styrene				
Phenylhydrazine	$C_6H_5NHNH_2$	100-63-0	5	20	10	45	Sk
2-Phenylpropene	$C_6H_5C(CH_3)=CH_2$	98-83-9	see *alpha*-Methyl styrene				
Phorate	$C_7H_{17}O_2PS_3$	298-02-2	-	0,05	-	0,2	Sk
Phosdrin	$C_7H_{13}PO_5$	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_3PO_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_2S_5/ P_4S_{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	$C_6H_4(CO)_2O$	85-44-9	1	6	4	24	Sen
Picloram	$C_6H_3Cl_3N_2O_2$	1918-02-1	-	10	-	20	
Picric acid	$(NO_2)_3C_6H_2OH$	88-89-1	-	0,1	-	0,3	
Piperazine dihydrochloride	$C_4H_{10}N_2.2HCl$	142-64-3	-	5	-	-	
Piperidine	$C_5H_{11}N$	110-89-4	1	3,5	-	-	Sk

SUBSTANCE	FORMULA	CAS Numbers	OEL		OEL-STEL/ OEL-C		Notes
			ppm	mg/m³	ppm	mg/m³	
Plaster of Paris	$(CaSO_4)_2.H_2O$	26499-65-0					
inhalable particulate			-	10	-	-	
respirable particulate			-	5	-	-	
Platinum metal	Pt	7440-06-4	-	5	-	-	
Platinum mine dust respirable particulate	-	-					
<5% crystalline quartz/silica			-	3,0	-	-	
>5% crystalline quartz/silica			see Silica – Crystalline (Quartz)				
Platinum salts, soluble [as Pt]	-	-	-	0,002	-	-	Sen
Polychlorinated biphenyls [PCBs]	-	-	see Chlorodiphenyls				
Polyvinyl chloride [PVC]	-	9002-86-2					
inhalable particulate			-	10	-	-	
respirable particulate			-	5	-	-	
Portland cement	-	65997-15-1					
inhalable particulate			-	10	-	-	
respirable particulate			-	5	-	-	
Potassium cyanide	KCN	151-50-8	see Hydrogen cyanide and cyanide salts				
Potassium hydroxide	KOH	1310-58-3	-	-	-	2	
Propane-1,2-diol	$CH_3CHOHCH_2OH$	57-55-6	see Propylene glycol				
n-Propanol	$CH_3CH_2CH_2OH$	71-23-8	200	500	250	625	Sk
Propan-1-ol	$CH_3CH_2CH_2OH$	71-23-8	see *n*-Propanol				
Propan-2-ol	$(CH_3)_2CHOH$	67-63-0	see Isopropyl alcohol				
Propane	$CH_3CH_2CH_3$	74-98-6	1000	1800	-	-	
Propargyl alcohol	$HC{\equiv}CCH_2OH$	107-19-7	1	2	3	6	Sk
Propionic acid	CH_3CH_2COOH	79-09-4	10	30	15	45	
Propoxur	$C_{11}H_{15}NO_3$	114-26-1	-	0,5	-	2	
Propranolol	$C_{16}H_{21}NO_2$	525-66-6	-	2	-	6	
n-Propyl acetate	$CH_3COOC_3H_7$	109-60-4	200	840	250	1050	
Propylene dinitrate	$CH_3CNO_2OHCHNO_2OH$	6423-43-4	see Propylene glycol dinitrate				
Propylene glycol	$CH_3CHOHCH_2OH$	57-55-6					
total (particulate & vapour)			150	470	-	-	
particulate			-	10	-	-	
Propylene glycol dinitrate [PGDN]	$CH_3CNO_2OHCHNO_2OH$	6423-43-4	0,2	1,2	0,2	1,2	Sk
Propylene glycol monomethyl ether	$CH_3CHOHCH_2OCH_3$	107-98-2	100	360	300	1080	Sk
2-Propyn-1-ol	$HC{\equiv}CCH_2OH$	107-19-7	see Propargyl alcohol				
Pulverised fuel ash	-	-					
inhalable particulate			-	10	-	-	
respirable particulate			-	5	-	-	
Pyrethrins	-	8003-34-7	-	5	-	10	
Pyridine	C_5H_5N	110-86-1	5	15	10	30	
2-Pyridylamine	$NH_2C_5H_4N$	502-29-0	0,5	2	2	8	
Pyrocatechol	$C_6H_4(OH)_2$	120-80-9	see Catechol				
Quartz, crystalline	SiO_2	14808-60-7	see Silica – Crystalline				
Quinone	$C_6H_4O_2$	106-51-4	0,1	0,4	0,3	1,2	
RDX	$C_3H_6N_6O_6$	121-82-4	see Cyclonite				
Resorcinol	$C_6H_4(OH)_2$	108-46-3	10	45	20	90	
Rhodium [as Rh]	Rh	7440-16-6 (metal)					
metal fume & dust			-	0,1	-	0,3	
soluble salts			-	0,001	-	0,003	
Ronnel	$(CH_3O)_2P(S)OC_6H_3Cl_2$	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	Fe_2O_3	1309-37-1					
inhalable particulate			-	10	-	-	
respirable particulate			-	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	SiO_2	7631-86-9					
inhalable particulate			-	6	-	-	
respirable particulate			-	3	-	-	

SUBSTANCE	FORMULA	CAS Numbers	OEL		OEL-STEL/ OEL-C		Notes
			ppm	mg/m³	ppm	mg/m³	
* 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	$C_8H_7Cl_2NaO_5S$	136-78-7	-	10	-	20	
Sodium fluoroacetate	$CH_2FCOONa$	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	$Na_2S_2O_5$	7681-57-4	-	5	-	-	
Starch	$(C_6H_{10}O_5)_n$	9005-25-8					
inhalable particulate			-	10	-	-	
respirable particulate			-	5	-	-	
Stibine	SbH_3	7803-52-3	0,1	0,5	0,3	1,5	
Strychnine	$C_{21}H_{22}N_2O_2$	57-24-9	-	0,15	-	0,45	
*Styrene	$C_6H_5CH=CH_2$	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	$[(CH_3CH_2O)_2PS]_2O$	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_2SO_4	7664-93-9	-	1	-	3	
Sulphur monochloride	S_2Cl_2	10025-67-9	-	-	1	6	
Sulphur pentafluoride	S_2F_{10}	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_2F_2	2699-79-8	5	20	10	40	
2,4,5-T	$Cl_3C_6H_2OCH_2COOH$	93-76-5	see 2,4,5-Trichlorophenoxyacetic acid				
*TDI	$CH_3C_6H_3(NCO)_2$	584-84-9	see *Isocyanates				
TEDP	$[(CH_3CH_2O)_2PS]_2O$	3689-24-5	see Sulfotep				
TEPP	$[(CH_3CH_2O)_2PO]_2O$	107-49-3	0,004	0,05	0,01	0,2	Sk
TNT	$CH_3C_6H_2(NO_2)_3$	118-96-7	see 2,4,6-Trinitrotoluene				
Talc	$Mg_3Si_4O_{10}(OH)_2$	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	$CHBr_2CHBr_2$	79-27-6	0,5	7	-	-	Sk
Tetrabromomethane	CBr_4	558-13-4	see Carbon tetrabromide				
Tetracarbonyl nickel	$Ni(CO)_4$	13463-39-3	see Nickel carbonyl				
1,1,1,2-Tetrachloro-1,2-difluoroethane	CCl_2FCClF	76-12-0	100	834	100	834	
1,1,1,2-Tetrachloro-2,2-difluoroethane	CCl_3CClF_2	76-11-9	100	834	100	834	
Tetrachloroethylene	$Cl_2C=CCl_2$	127-18-4	see Perchloroethylene				
Tetrachloromethane	CCl_4	56-23-5	see Carbon tetrachloride				
Tetrachloronaphthalenes, all isomers	$C_{10}H_4Cl_4$	1335-88-2	-	2	-	4	
Tetraethyl dithiopyrophosphate	$[(CH_3CH_2O)_2PS]_2O$	3689-24-5	see Sulfotep				
Tetraethyl orthosilicate	$Si(OC_2H_5)_4$	78-10-4	see Ethyl silicate				
Tetraethyl pyrophosphate	$[(CH_3CH_2O)_2PO]_2O$	107-49-3	see TEPP				

SUBSTANCE	FORMULA	CAS Numbers	OEL		OEL-STEL/ OEL-C		Notes
			ppm	mg/m³	ppm	mg/m³	
Tetrafluorodichloroethane	$CClF_2CClF_2$	76-14-2	see 1,2-Dichlorotetrafluoroethane				
1,1,1,2-Tetrafluoroethane [HFC 134a]	CF_3CH_2F	811-97-2	1000	4200	-	-	
Tetrahydrofuran	C_4H_8O	109-99-9	100	295	200	590	Sk
Tetramethyl orthosilicate	$(CH_3O)_4Si$	681-84-5	see Methyl silicate				
Tetramethyl succinonitrile	$C_8H_{12}N_2$	3333-52-6	0,5	3	2	9	Sk
Tetrasodium pyrophosphate	$Na_4P_2O_7$	7722-88-5	-	5	-	-	
Tetryl	$(NO_2)_3C_6H_2N(NO_2)CH_3$	479-45-8	-	1,5	-	3	
Thallium, soluble compounds [as Tl]	Tl	-	-	0,1	-	-	Sk
4,4'-Thiobis(6-*tert*-butyl-*m*-cresol)	$[CH_3(OH)C_6H_2C(CH_3)_3]_2S$	96-69-5	-	10	-	20	
Thioglycolic acid	$HSCH_2COOH$	68-11-1	1	5	-	-	
Thionyl chloride	$SOCl_2$	7719-09-7	-	-	1	5	
Thiram	$(CH_3)_2NCS_2CS_2N(CH_3)_2$	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	TiO_2	13463-67-7					
inhalable particulate			-	10	-	-	
respirable particulate			-	5	-	-	
Toluene	$C_6H_5CH_3$	108-88-3	50	188	150	560	Sk
*2,4-Toluene diisocyanate [TDI]	$CH_3C_6H_3(NCO)_2$	584-84-9	see *Isocyanates				
p-Toluenesulphonyl chloride	$CH_3C_6H_4SO_2Cl$	98-59-9	-	-	-	5	
Tribromomethane	$CHBr_3$	75-25-2	see Bromoform				
Tributyl phosphate, all isomers	$(C_4H_9)_3PO_4$	126-73-8	-	5	-	5	
Tricarbonyl(*eta*-cyclopentadienyl)manganese	$(C_5H_5)Mn(CO)_3$	12079-65-1	see Manganese cyclopentadienyl tricarbonyl				
Tricarbonyl(methylcyclopentadienyl)manganese	$CH_3C_5H_4Mn(CO)_3$	12108-13-3	see Methylcyclopentadienyl manganese tricarbonyl				
Trichloroacetic acid	CCl_3COOH	76-03-9	1	5	-	-	
1,2,4-Trichlorobenzene	$C_6H_3Cl_3$	120-82-1	5	40	5	40	
1,1,1-Trichlorobis-2,2-bis(*p*-chlorophenyl)ethane	$(C_6H_4Cl)_2CHCCl_3$	50-29-3	see DDT				
*1,1,1-Trichloroethane	CH_3CCl_3	71-55-6	see *Methyl chloroform				
1,1,2-Trichloroethane	$CHCl_2CH_2Cl$	79-00-5	10	45	20	90	Sk
*Trichloroethylene	$CCl_2=CHCl$	79-01-6	100	535	150	802	Sk
Trichlorofluoromethane	CCl_3F	75-69-4	1000	5600	1250	7000	
Trichloromethane	$CHCl_3$	67-66-3	see Chloroform				
Trichloronitromethane	CCl_3NO_2	76-06-2	see Chloropicrin				
2,4,5-Trichlorophenoxyacetic acid	$Cl_3C_6H_2OCH_2COOH$	93-76-5	-	10	-	20	
1,2,3-Trichloropropane	$CH_2ClCHClCH_2Cl$	96-18-4	50	300	75	450	
1,1,2-Trichlorotrifluoroethane	CCl_2FCClF_2	76-13-1	1000	7600	1250	9500	
Tri-*o*-cresyl phosphate	$(CH_3C_6H_4O)_3P=O$	78-30-8	-	0,1	-	0,3	
Tricyclohexyltin hydroxide	$(C_6H_{11})_3SnOH$	13121-70-5	see Cyhexatin				
Tridymite	SiO_2	14808-60-7	see Silica – Crystalline				
Triethylamine	$(C_2H_5)_3N$	121-44-8	10	40	15	60	
Trifluorobromomethane	CF_3Br	75-63-8	1000	6100	1200	7300	
Trimanganese tetraoxide	Mn_3O_4	1317-35-7	see Manganese tetroxide				
Trimellitic anhydride	$C_9H_4O_5$	552-30-7	-	0,04	-	-	Sen
Trimethylamine	$(CH_3)_3N$	75-50-3	10	24	15	36	
Trimethylbenzene, all isomers or mixtures	$C_6H_3(CH_3)_3$	25551-13-7	25	123	-	-	
3,5,5-Trimethylcyclohex-2-enone	$C_9H_{14}O$	78-59-1	see Isophorone				
Trimethyl phosphite	$(CH_3O)_3P$	121-45-9	2	10	-	-	
2,4,6-Trinitrophenol	$(NO_2)_3C_6H_2OH$	88-89-1	see Picric acid				
2,4,6-Trinitrotoluene	$CH_3C_6H_2(NO_2)_3$	118-96-7	-	0,5	-	-	Sk
Triphenyl phosphate	$(C_6H_5O)_3PO_4$	115-86-6	-	3	-	6	
Tripoli	SiO_2	14808-60-7	see Silica – Crystalline				
Tri-*o*-tolyl phosphate	$(CH_3C_6H_4O)_3P=O$	78-30-8	see Tri-*o*-cresyl phosphate				
Tungsten & compounds [as W]	-	7440-33-7 (metal)					
soluble			-	1	-	3	
insoluble			-	5	-	10	
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/m³	ppm	mg/m³	
Vanadium pentoxide	V_2O_5	1314-62-1					
inhalable particulate			-	0,5	-	-	
fume & respirable particulate			-	0,05	-	-	
Vinyl acetate	CH_2=CHOOCCH$_3$	108-05-4	10	30	20	60	
*Vinyl benzene	C_6H_5CH=CH_2	100-42-5	see *Styrene				
Vinyl bromide	CH_2=CHBr	593-60-2	5	20	-	-	
*Vinyl chloride	H_2C=CHCl	75-01-4	7	-	-	-	See Note [f]
4-Vinyl cyclohexene dioxide	$C_8H_{12}O_2$	106-87-6	10	60	-	-	
*Vinylidene chloride	CH_2=CCl_2	75-35-4	10	40	-	-	
Vinyl toluenes, all isomers	CH_2=$CHC_6H_4CH_3$	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, *o*-, *m*-, *p*- or mixed isomers	$C_6H_4(CH_3)_2$	1330-20-7	100	435	150	650	Sk
Xylidine, all isomers	$(CH_3)_2C_6H_3NH_2$	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 μ m aerodynamic diameter

[ii] 50% particles of 4 μ m aerodynamic diameter

[iii] 30% particles of 5 μ m aerodynamic diameter

[iv] 1% particles of 10 μ m aerodynamic diameter

[b] Exposure to a substance with an OEL demarcated with an asterix must be kept as far bel ow 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 o f 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		**mg/l**
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		**µg/l**
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.